



REGIONE BASILICATA



PROVINCIA DI MATERA



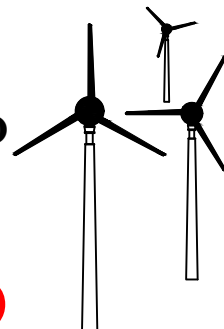
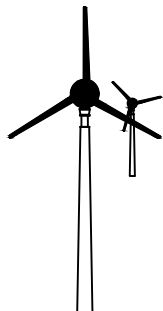
COMUNE DI SALANDRA



COMUNE DI FERRANDINA

# PROGETTO PER LA COSTRUZIONE E L'ESERCIZIO DI UN IMPIANTO EOLICO PER LA PRODUZIONE DI ENERGIA ELETTRICA, DELLE OPERE E DELLE INFRASTRUTTURE CONNESSE, DENOMINATO "TORRICELLI"

## DA REALIZZARSI NEI COMUNI DI SALANDRA (MT) E FERRANDINA (MT), DI POTENZA PARI A 31 MW ACCOPPIATO AD UN SISTEMA DI ACCUMULO PARI A 8 MW



# PROGETTO DEFINITIVO

PROPONENTE:



EDPR BASILICATA S.R.L.

SVILUPPO:



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PROGETTISTI:



# PD

PROGETTO DEFINITIVO

ELABORATO:

RELAZIONE PRELIMINARE SULLE STRUTTURE DI FONDAZIONE

Tavola:

SAL-PDEF-REL-007

Filename:

Data 1° emissione:

Redatto:

Verificato:

Approvato:

Scala:

n° revisione

1  
2  
3  
4

# INTESTAZIONE E CONTENUTI DELLA RELAZIONE

## Progetto

**PROGETTO PER LA COSTRUZIONE E L'ESERCIZIO DI UN IMPIANTO EOLICO PER LA PRODUZIONE DI ENERGIA ELETTRICA, DELLE OPERE E DELLE INFRASTRUTTURE CONNESSE, DENOMINATO "TORRICELLI" DA REALIZZARSI NEI COMUNI DI SALANDRA (MT) E FERRANDINA (MT), DI POTENZA PARI A 31 MW ACCOPPIATO AD UN SISTEMA DI ACCUMULO PARI A 8 MW**

## **RELAZIONE PRELIMINARE SULLE STRUTTURE**

Contenuti della relazione:

RELAZIONE DI CALCOLO STRUTTURALE

- *Origine e Caratteristiche dei Codici di Calcolo*
- *Affidabilità dei codici utilizzati*
- *Validazione dei codici*
- *Tipo di analisi svolta*
- *Modalità di presentazione dei risultati*
- *Informazioni generali sull'elaborazione*
- *Giudizio motivato di accettabilità dei risultati*
- *Normative prese a riferimento*
- *Criteri adottati per le misure di sicurezza*
- *Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconnessioni*
- *Interazione tra terreno e struttura*
- *Legami costitutivi adottati per la modellazione dei materiali e dei terreni*
- *Schematizzazione delle azioni, condizioni e combinazioni di carico*
- *Metodologie numeriche utilizzate per l'analisi strutturale*
- *Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali*
- **RELAZIONE GEOTECNICA (Parte 1 – Condizioni non drenate)**
- **RELAZIONE GEOTECNICA (Parte 2 – Condizioni drenate)**

Il Progettista: Ing. Domenico Benincasa

27 April 2023

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# RELAZIONE DI CALCOLO STRUTTURALE

## Premessa

La presente relazione riguarda il calcolo preliminare delle strutture di fondazione delle pale eoliche da installare presso i comuni di Salandra e Ferrandina della provincia di Matera. Al fine di valutare la realizzabilità di tali opere presso i siti in questione, è stata effettuata una prima campagna di indagini geologiche e geotecniche al fine di individuare la morfologia del territorio in esame. Le prove sperimentali preliminari effettuate consistono in un carotaggio continuo in zona baricentrica rispetto al parco da cui sono stati estratti 3 campioni e sottoposti a prove di laboratorio. Inoltre sono stati forniti alcuni parametri fisici e meccanici dei vari strati che costituiscono il sottosuolo, di cui si riporta una tabella estratta dalla relazione geologica:

<b>Orizzonte Litotecnico a (sabbie); da p.c. fino a - 7.0 m,</b>			
Peso dell'unità di volume	$\gamma_n$	1.98	t/m <sup>3</sup>
Coesione	$c'$	1.36	t/m <sup>2</sup>
Angolo di attrito interno	$\phi'$	24.6°	
<b>Orizzonte Litotecnico b (sabbie argillose) da - 7.0 m a -16 m,</b>			
Peso dell'unità di volume	$\gamma_n$	1.99	t/m <sup>3</sup>
Coesione	$c'$	2.71	t/m <sup>2</sup>
Angolo di attrito interno	$\phi'$	22.6°	
<b>Orizzonte Litotecnico c (substrato argilloso)</b>			
Peso dell'unità di volume	$\gamma_n$	2.05	t/m <sup>3</sup>
Coesione	$c'$	2.74	t/m <sup>2</sup>
Angolo di attrito interno	$\phi'$	23.0°	

QUADRO RIASSUNTIVO E INTERPRETATIVO DELLE ANALISI GEOTECNICHE																			
Progetto per la costruzione e l'esercizio di un impianto eolico per la produzione di energia elettrica, delle opere e delle infrastrutture connesse, denominato "Torricelli". Comuni di Salandra e Ferrandina (MT)																			
Sond.	Camp.	Profondità m	W %	$\gamma_v$ KN/m <sup>3</sup>	$\gamma_d$ KN/m <sup>3</sup>	$\gamma_{sat}$ KN/m <sup>3</sup>	$\gamma_s$ KN/m <sup>3</sup>	e	n %	Sr %	Ghiaia %	Sabbia %	Limo %	Argilla %	LL %	LP %	IP %	TG-CD c KN/m <sup>2</sup> $\phi^\circ$	CNR-UNI 10006
1	1	2.20 - 2.70	11.50	19.40	17.40	20.70	26.40	0.520	34.20	59.60	0.50	25.80	47.50	26.20	32.8	21.6	11.2	13.40 - 24.6°	A6
1	2	12.50 - 13.00	22.60	19.60	16.00	19.90	26.80	0.678	40.40	91.20	0.00	0.70	47.10	52.20	52.2	28.8	23.4	26.60 - 22.6°	A7-6
1	3	21.50 - 22.00	19.90	20.10	16.80	20.50	26.90	0.604	37.60	90.40	0.00	1.80	51.30	46.90	42.0	25.7	16.3	26.90 - 23°	A7-6

Legenda:  
W= Umidità naturale -  $\gamma_v$ = Peso di volume naturale -  $\gamma_d$ = Peso di volume secco -  $\gamma_s$ = Peso specifico - e= Indice dei vuoti - n= Porosità - Sr= Grado di saturazione -  $\gamma_{sat}$ = peso di volume saturo - LL= Limite liquido  
L.P.= Limite plastico - L.R.= Limite di ritiro - IP= Indice plastico - c= Coesione -  $c_u$ = Coesione non drenata -  $\phi'$ = Angolo di attrito interno P= Pressione sul provino - Ed= Modulo edometrico

Le prove effettuate in laboratorio sono del tipo a taglio diretto in condizioni drenate che hanno permesso di ricavare i dati suddetti. Con questi dati è stato possibile effettuare verifiche geotecniche in condizioni drenate ovvero a lungo termine, sia per quanto riguarda la portanza dei pali che per quanto concerne la vaultazione dei cedimenti.

A parere dello scrivente, vista la tipologia dei terreni del sottosuolo, in particolar modo prendendo in esame gli strati da 7 metri di profondità in poi, si può vedere come questi presentino una frazione ghiaiosa nulla e sabbiosa del tutto trascurabile, oltre che un alto grado di saturazione, pertanto trattasi di terreni di natura completamente coesiva. In tal caso, sulla base dell'esperienza si può stabilire che le verifiche geotecniche più gravose per l'opera in esame sono quelle a breve termine e cioè in condizioni non drenate, vista la natura dei terreni a la loro bassissima permeabilità.

Al fine di effettuare le corrette valutazioni e verifiche, si necessita pertanto, quantomeno in fase esecutiva, di effettuare una campagna di indagini esaustiva in corrispondenza di ogni pala eolica da installare, per la valutazione dei parametri geotecnici necessari alla modellazione del sottosuolo per poter verificare l'insieme fondazione-terreno anche in condizioni non drenate ovvero per verifiche di breve termine.

Nel presente lavoro sono state predimensionate le fondazioni, verificate le stesse agli stati limite (secondo quanto prescritto dalle NTC 2018) e sono state fatte verifiche di carico limite e di cedimenti in condizioni drenate (sulla base dei parametri fisici e meccanici disponibili) e non drenate, sulla base di parametri reperiti in letteratura o con correlazioni empiriche.

Come accennato e previsto, le verifiche in condizioni non drenate sono risultate ampiamente più stringenti di quelle in condizioni drenate e sono state determinanti per il dimensionamento dei pali di fondazione.

I carichi applicati alla fondazione sono stati quelli forniti dall'azienda produttrice delle pale stesse, reperibili nei documenti "D023-P037-T02\_02 - Foundation requirements document" e "D2431696-002 SGRE ON SG 6.0-170 Foundation geometric requisites". In particolare sono state applicate le azioni che il suddetto documento impone di applicare per la verifica delle fondazioni che consistono in 4 combinazioni di carico costituite da azione tagliante nel piano, azione assiale, momento flettente intorno ad un qualsiasi asse orizzontale e momento torcente (intorno all'asse verticale della pala eolica). Sono state inoltre considerate anche le combinazioni di carico relative agli stati limite di esercizio (quasi permanente e frequente).

Inoltre, è stata effettuata un'analisi sismica semplificata che ha confermato quanto siano maggiormente gravose le azioni sismiche. L'analisi sismica è stata fatta considerando un periodo di vibrazione della pala calcolato con la formula C7.3.2 della corcolare delle NTC 2018 e con lo spettro di risposta elastico, senza considerare quindi le risorse duttili e plastiche della struttura in elevazione, a totale vantaggio di sicurezza per le fondazioni. È stata considerata come massa sismica quella agente assialmente nella combinazione di carico quasi permanente (fornita dal produttore) ed è stato calcolato quindi il tagliante alla base ed il momento flettente alla base. Le azioni sismiche sono state applicate al modello costituendo un'ulteriore combinazione (la n.7) in cui si sono applicati ai solidi nodi, considerati quelli in corrispondenza dell'attacco della pala, le azioni scaturite dall'analisi sismica semplificata.

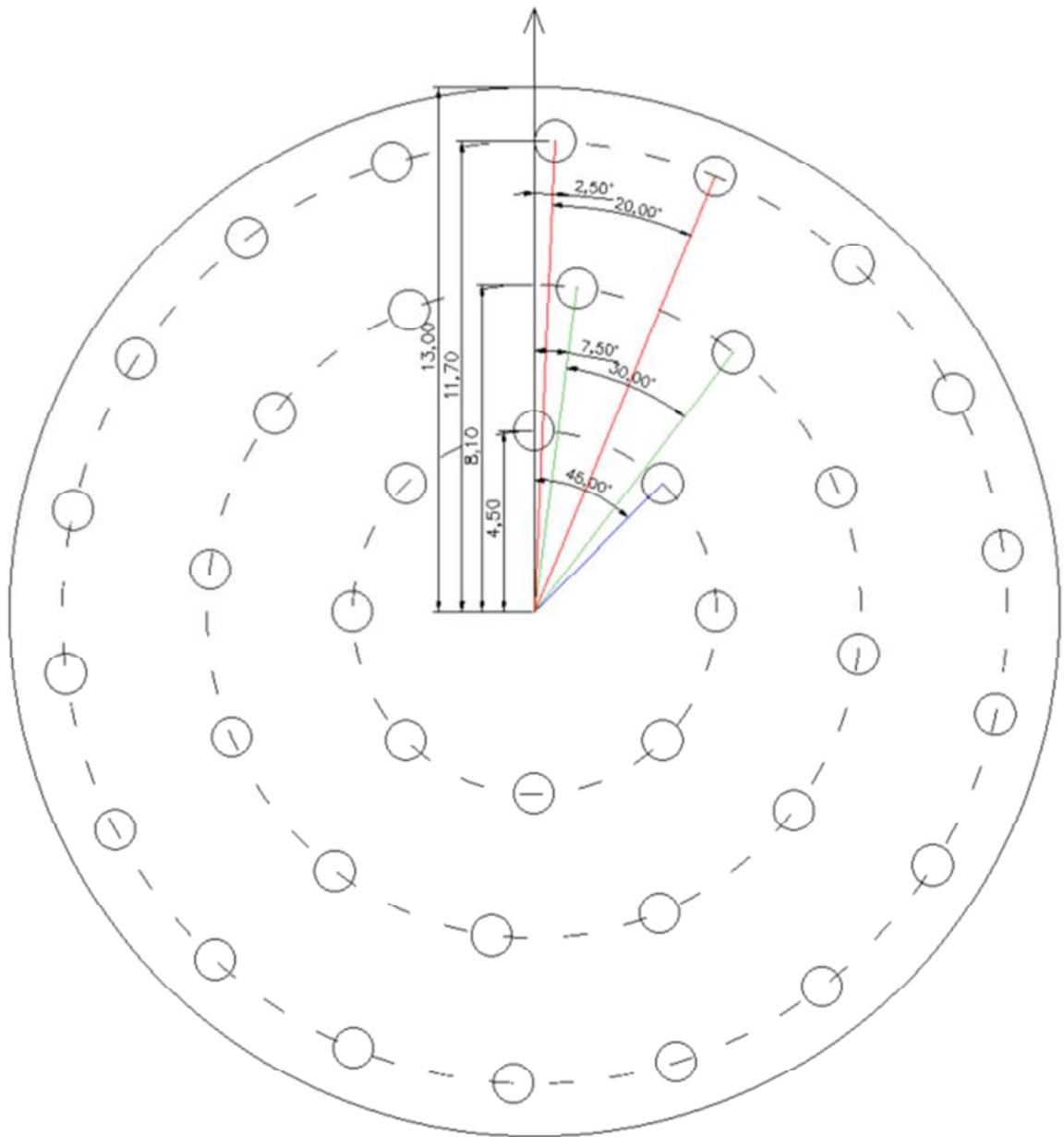
## Descrizione generale dell'opera

Il modello di pala eolica che si vorrà installare è la pala SG170 6,20 MW T115-52 A prodotta da Siemens Gamesa e Windtechnic engineering, alta 115 m. Per maggiori informazioni tecniche riguardanti il generatore si rimanda ai documenti tecnici del produttore.

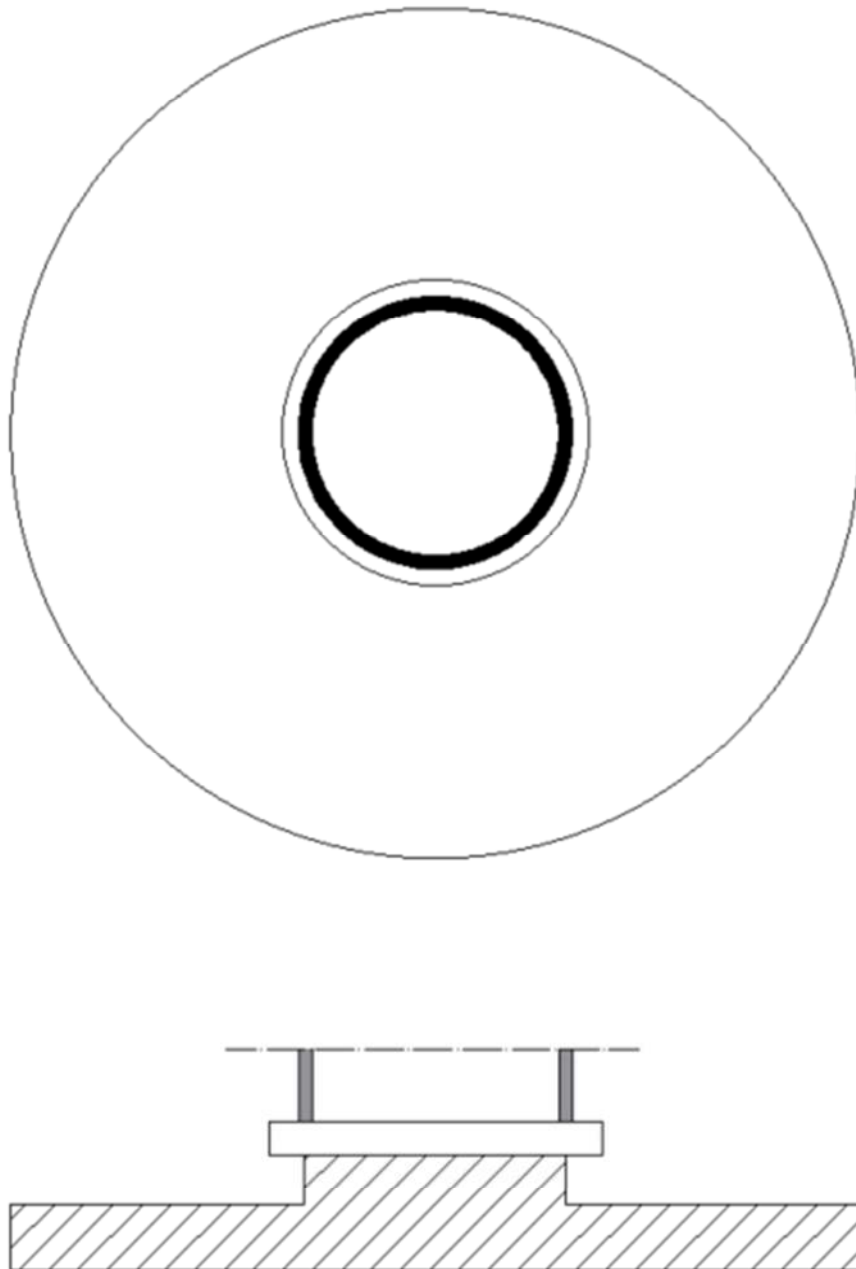
In accordo con le prescrizioni geometriche e meccaniche in merito alle strutture di fondazione necessarie, fornite dal produttore stesso, è stata predimensionata e verificata una possibile struttura di fondazione per le pale in esame, da installare presso i siti di interesse del presente progetto.

La fondazione progettata nel presente elaborato è costituita da una platea circolare su pali. La platea ha uno spessore pari a 3.5 m nella parte centrale di diametro 9 m e spessore costante e pari a 2 m per la sua restante estensione. Il diametro complessivo è di 26 m. Essa poggia su n.38 pali trivellati in calcestruzzo di diametro pari a 100 cm e profondità 30 m. I pali sono disposti su 3 circonferenze concentriche: il primo anello è di raggio 4.5 m e contiene gli 8 pali più interni; segue un anello intermedio di raggio 8.10 m sul quale sono disposti 12 pali; infine l'anello più esterno è di raggio 11.70 m e contiene i restanti 18 pali. La disposizione geometrica è stata progettata in modo tale da:

- Avere la miglior ripartizione radiale dei pali in modo da distribuire in maniera ottimale le sollecitazioni;
- Avere una distanza tra pali mai inferiore a 3 m ovvero a 3 volte il diametro, in qualsiasi direzione.



Vista dal basso della platea con indicazione della disposizione dei 38 pali



Vista dall'alto e vista in sezione della platea

I carichi della struttura in elevazione sulla platea sono stati applicati non in maniera puntuale nel baricentro geometrico (ipotesi del tutto non realistica) ma scomponendo le azioni in 16 entità la cui risultante in termini di forze assiali, forze di taglio nel piano, momento flettente e momento torcente risulti del tutto equivalente ai carichi baricentrici forniti dal produttore, ed applicate lungo la circonferenza di impronta della reale sovrastruttura del generatore eolico.



## Quadro normativo di riferimento adottato

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo “normativa di riferimento” è comunque presente l’elenco completo delle normative disponibili.

<b>Progetto-verifica degli elementi</b>	
Progetto cemento armato	D.M. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018
<b>Azione sismica</b>	
Norma applicata per l' azione sismica	D.M. 17-01-2018

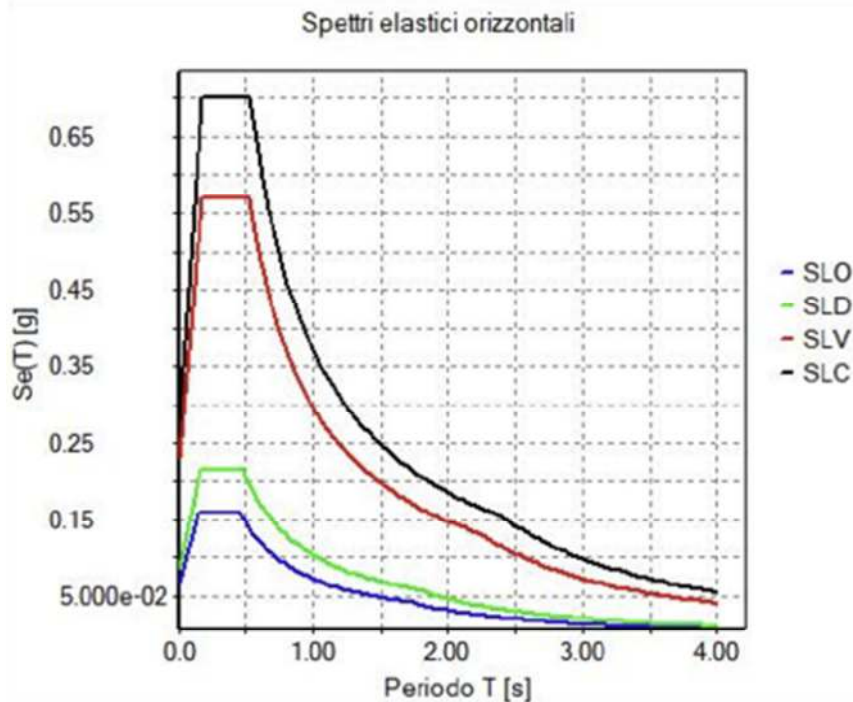
## Azioni di progetto sulla costruzione

Le azioni considerate, come descritto nella premessa, sono quelle fornite con i documenti tecnici relativi allo specifico modello di pala eolica considerata. Sono state fornite delle combinazioni di carico sia allo SLU che allo SLE costituite da un’azione tagliante nel piano orizzontale, un’azione assiale, un’azione flettente ed un’azione torcente. Sono state inoltre valutate dal progettista le azioni sismiche in maniera semplificata ed a vantaggio di sicurezza di cui di seguito si riporta un estratto.

## Valutazione massa sismica - PALA EOLICA

$$T_1 = C_1 H^{3/4} \quad [C7.3.2]$$

C1	0.085
H	115 m
T1	2.98 sec



### SPETTRO ELASTICO

Sd 0.075

peso 1798900 kg

### AZIONE ASSIALE

**17989 kN**

### TAGLIANTE SISMICO ALLA BASE

**1349 kN**

### MOMENTO SISMICO ALLA BASE

**155155 kNm**

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale è condotta con il metodo dell'analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

$K \cdot u = F$  dove

- K = matrice di rigidezza
- u = vettore spostamenti nodali
- F = vettore forze nodali

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

Elemento tipo <b>TRUSS</b>	(biella-D2)
Elemento tipo <b>BEAM</b>	(trave-D2)
Elemento tipo <b>MEMBRANE</b>	(membrana-D3)
Elemento tipo <b>PLATE</b>	(piastra-guscio-D3)
Elemento tipo <b>BOUNDARY</b>	(molla)
Elemento tipo <b>STIFFNESS</b>	(matrice di rigidità)
Elemento tipo <b>BRICK</b>	(elemento solido)
Elemento tipo <b>SOLAIO</b>	(macro elemento composto da più membrane)

## Modello numerico

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 e relativi sottoparagrafi delle NTC-18, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Tipo di analisi strutturale	
Sismica statica lineare	NO
Sismica dinamica lineare	NO
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO
Analisi lineare	SI

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2022-10-198)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Dati utente finale:	ING. DOMENICO BENINCASA
Codice Utente:	004018/cli
Codice Licenza:	Licenza dsi6901

Un attento esame preliminare della documentazione a corredo del software **ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico**. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

#### Affidabilità dei codici utilizzati

2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link:  
<https://www.2si.it/it/prodotti/affidabilita/>

#### Modellazione della geometria e proprietà meccaniche:

nodi	335
elementi D2 (per aste, travi, pilastri...)	0
elementi D3 (per pareti, platee, gusci...)	309
elementi solaio	0
elementi solidi	0

#### Dimensione del modello strutturale [cm]:

X min =	-1300.00
Xmax =	1300.00
Ymin =	-1300.00
Ymax =	1300.00
Zmin =	0.00
Zmax =	0.00

#### Strutture verticali:

Elementi di tipo asta	NO
Pilastri	NO
Pareti	NO
Setti (a comportamento membranale)	NO

#### Strutture non verticali:

Elementi di tipo asta	NO
Travi	NO
Gusci	SI
Membrane	NO

#### Orizzontamenti:

Solai con la proprietà piano rigido	NO
-------------------------------------	----

Solai senza la proprietà piano rigido	NO
<b>Tipo di vincoli:</b>	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	SI
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	NO
Fondazioni con elementi solidi	NO

## Modellazione delle azioni

Si veda il capitolo **“Schematizzazione dei casi di carico”** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte *“2.6. Azioni di progetto sulla costruzione”*.

## Combinazioni e/o percorsi di carico

Si veda il capitolo **“Definizione delle combinazioni”** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

<b>Combinazioni dei casi di carico</b>	
APPROCCIO PROGETTUALE	Approccio 2
SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	NO
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	NO
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI
SLA (accidentale quale incendio)	NO

## Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

Nella presente relazione di calcolo sono riportati i seguenti risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura:

per l'analisi modale:

- periodi dei modi di vibrare della struttura
- masse eccitate dai singoli modi
- massa eccitata totale

deformate e sollecitazioni:

- spostamenti e rotazioni dei singoli nodi della struttura
- reazioni vincolari (nel caso siano presenti nodi vincolati rigidamente)
- pressioni sul terreno (nel caso siano presenti elementi di fondazione)
- sollecitazioni sugli elementi d2 nelle combinazioni di calcolo più significative
- tensioni sugli elementi d3 nelle combinazioni di calcolo più significative
- sollecitazioni sui macroelementi da elementi d3 nelle combinazioni di calcolo più significative

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura):

- configurazioni deformate
- diagrammi e involuppi delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi:

- diagrammi di armatura
- percentuali di sfruttamento
- mappe delle verifiche più significative per i vari stati limite

### Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni anormali. Si può pertanto asserire che l'elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.) .

### Verifiche agli stati limite ultimi

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

### Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLE vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

# NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
4. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
7. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
8. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
9. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
10. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
11. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
12. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
13. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
14. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
15. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
16. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
17. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
18. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
19. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
20. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
21. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
22. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
23. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
24. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
25. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
26. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
27. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici.
28. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
29. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
30. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi

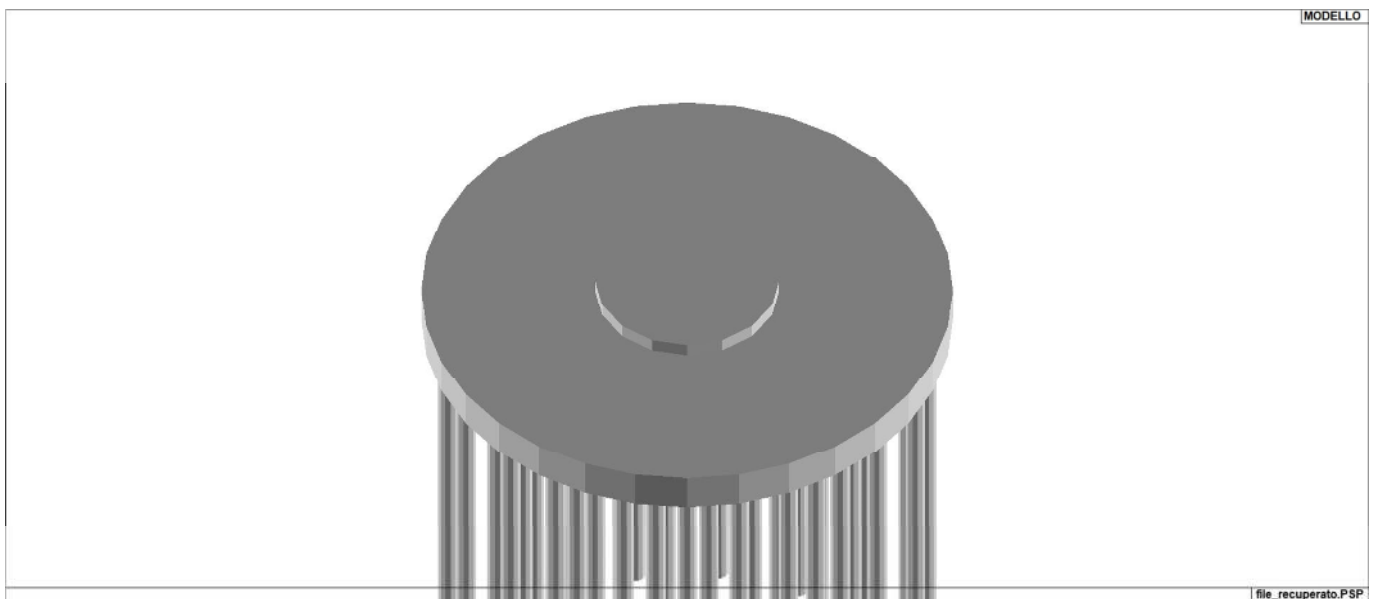


di calcolo semplificato per strutture di muratura non armata.

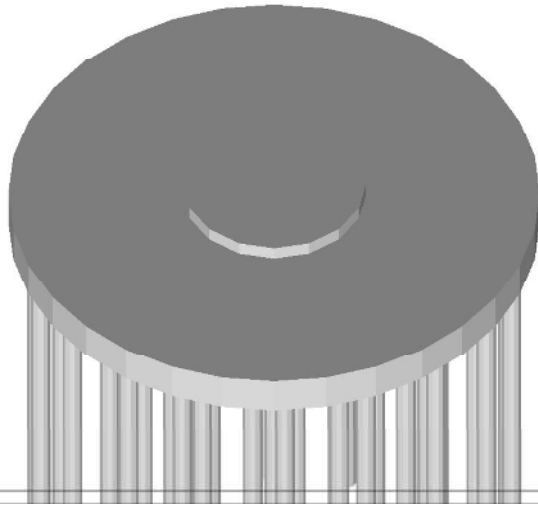
31. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
32. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
33. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
34. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.
35. CNR DT-200/2013 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati
36. CNR DT-215/2018 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati a Matrice Inorganica

NOTA: il presente capitolo riporta l'elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO".

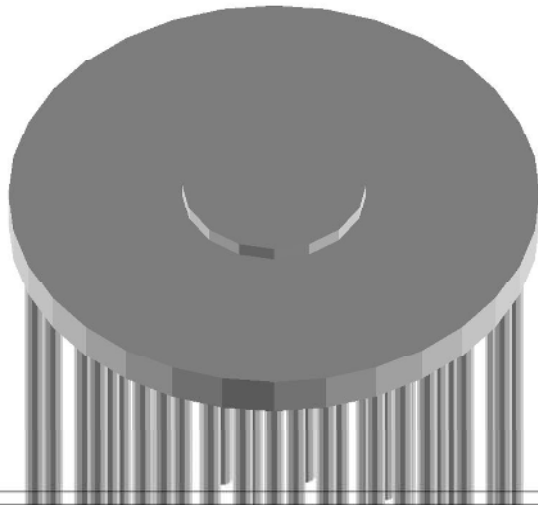
Laddove nei capitoli successivi vengano richiamate normative antecedenti al DM 17.01.18 è dovuto alla progettazione simulata di edificio esistente.



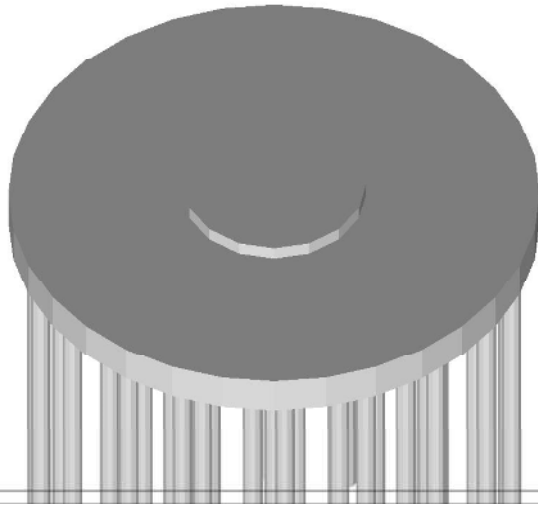
01\_INT\_VISTA\_SOLIDA\_001



01\_INT\_VISTA\_SOLIDATA\_002



01\_INT\_VISTA\_SOLIDATA\_003



01\_INT\_VISTA\_SOLIDA\_004

# CARATTERISTICHE MATERIALI UTILIZZATI

## LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

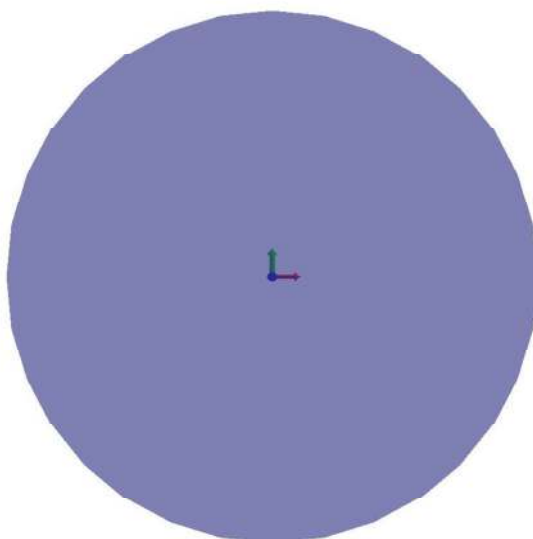
I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale $\nu$
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale della struttura)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (è riportato solo se diverso da quello globale della struttura)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficiente di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc	resistenza a compressione cubica
		Resistenza fctm	resistenza media a trazione semplice
		Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft	Valore della tensione di rottura
		Tensione fy	Valore della tensione di snervamento
		Resistenza fd	Resistenza di calcolo per SL CNR-UNI 10011
		Resistenza fd (>40)	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
		Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
		Tensione ammissibile(>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
		Incremento resistenza	Incremento conseguito in termini di resistenza





## 11\_MOD\_MATERIALI\_D3

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
<b>Armatura</b>						
Inclinazione Ax [ gradi ]	0.0	0.0				
Angolo Ax-Ay [ gradi ]	90.00	90.00				
Minima tesa	0.31	0.10				
Massima tesa	0.78	4.00				
Maglia unica centrale	NO	NO				
Copriferro [ cm ]	2.00	5.00				
<b>Maglia x</b>						
diametro	26	24				
passo	20	20				
diametro aggiuntivi	26	24				
<b>Maglia y</b>						
diametro	26	24				
passo	20	20				
diametro aggiuntivi	26	24				
<b>Stati limite ultimi</b>						
Tensione fy [kN/ m2 ]	450000.00	450000.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Verifiche con N costante	SI	SI				
Applica SLU da DIN	NO	NO				
<b>Tensioni ammissibili</b>						
Tensione amm. cls [kN/ m2 ]	9750.00	9750.00				
Tensione amm. acciaio [kN/ m2 ]	260000.00	260000.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
<b>Resistenza al fuoco</b>						
3- intradosso	NO	NO				
3+ estradosso	NO	NO				
Tempo di esposizione R	15	15				

# MODELLAZIONE DELLE SEZIONI

## LEGENDA TABELLA DATI SEZIONI

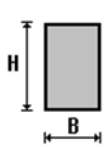
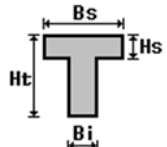
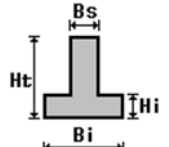
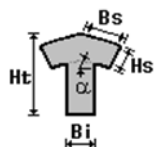
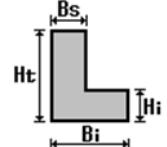
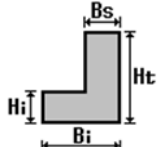
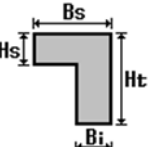
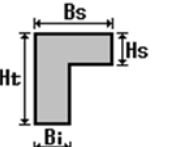
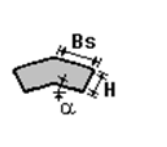
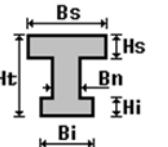
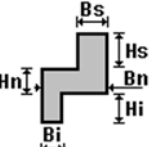
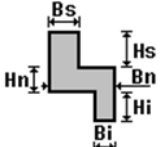
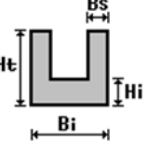
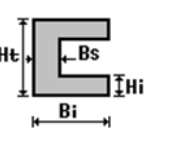
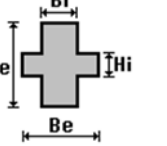
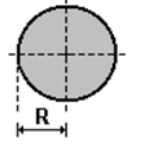
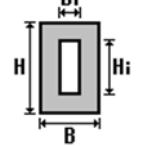
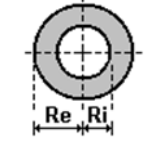
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

<b>Area</b>	area della sezione
<b>A V2</b>	area della sezione/fattore di taglio (per il taglio in direzione 2)
<b>A V3</b>	area della sezione/fattore di taglio (per il taglio in direzione 3)
<b>Jt</b>	fattore torsionale di rigidezza
<b>J2-2</b>	momento d'inerzia della sezione riferito all'asse 2
<b>J3-3</b>	momento d'inerzia della sezione riferito all'asse 3
<b>W2-2</b>	modulo di resistenza della sezione riferito all'asse 2
<b>W3-3</b>	modulo di resistenza della sezione riferito all'asse 3
<b>Wp2-2</b>	modulo di resistenza plastico della sezione riferito all'asse 2
<b>Wp3-3</b>	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

 rettangolare	 a T	 a T rovescia	 a T di colmo	 a L	 a L specchiata
 a L specchiata rovescia	 a L rovescia	 a L di colmo	 a doppio T	 a quattro specchiata	 a quattro
 a U	 a C	 a croce	 circolare	 rettangolare cava	 circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilati.

Per quanto concerne le sezioni di tipo generico (tipo 1.):  
i valori dimensionali con prefisso B sono riferiti all'asse 2  
i valori dimensionali con prefisso H sono riferiti all'asse 3

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3



# MODELLAZIONE STRUTTURA: NODI

## LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità.

In particolare per ogni nodo viene indicato in tabella:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z
<b>Note</b>	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
<b>Note</b>	(FS = 1, 2,...) eventuale codice del tipo di fondazione speciale (1, 2,... fanno riferimento alle tipologie: plinto, palo, plinto su pali,...) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
<b>Rig. TX</b>	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

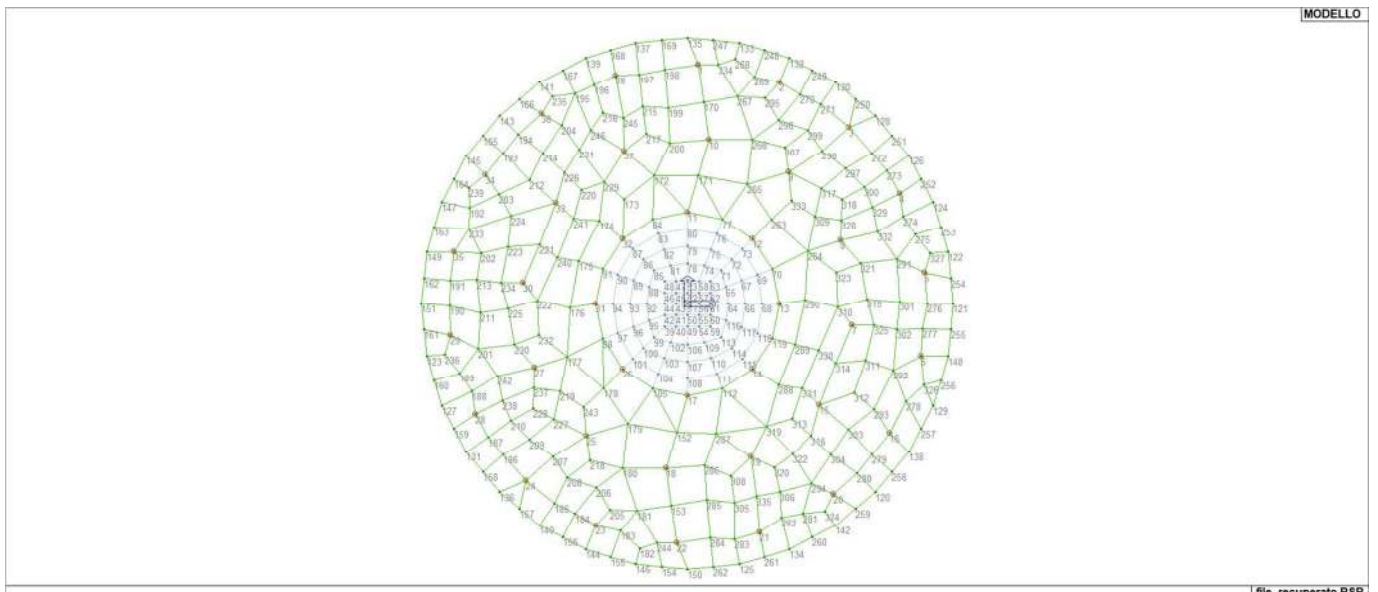
## TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
39	-112.5	-112.5	0.0	40	-56.2	-112.5	0.0	41	-56.2	-56.2	0.0
42	-112.5	-56.2	0.0	43	-56.2	0.0	0.0	44	-112.5	0.0	0.0
45	-56.2	56.2	0.0	46	-112.5	56.2	0.0	47	-56.2	112.5	0.0
48	-112.5	112.5	0.0	49	0.0	-112.5	0.0	50	0.0	-56.2	0.0
51	0.0	0.0	0.0	52	0.0	56.2	0.0	53	0.0	112.5	0.0
54	56.2	-112.5	0.0	55	56.2	-56.2	0.0	56	56.2	0.0	0.0
57	56.2	56.2	0.0	58	56.2	112.5	0.0	59	112.5	-112.5	0.0
60	112.5	-56.2	0.0	61	112.5	0.0	0.0	62	112.5	56.2	0.0
63	112.5	112.5	0.0	64	196.9	0.0	0.0	65	188.3	85.2	0.0
66	281.2	0.0	0.0	67	264.1	114.2	0.0	68	365.6	0.0	0.0
69	339.9	143.2	0.0	70	415.7	172.2	0.0	71	163.9	163.9	0.0
72	215.3	215.3	0.0	73	266.8	266.8	0.0	74	85.2	188.3	0.0
75	114.2	264.1	0.0	76	143.2	339.9	0.0	77	172.2	415.7	0.0
78	0.0	196.9	0.0	79	0.0	281.2	0.0	80	0.0	365.6	0.0
81	-85.2	188.3	0.0	82	-114.2	264.1	0.0	83	-143.2	339.9	0.0
84	-172.2	415.7	0.0	85	-163.9	163.9	0.0	86	-215.3	215.3	0.0
87	-266.8	266.8	0.0	88	-188.3	85.2	0.0	89	-264.1	114.2	0.0
90	-339.9	143.2	0.0	91	-415.7	172.2	0.0	92	-196.9	0.0	0.0

93	-281.2	0.0	0.0	94	-365.6	0.0	0.0	95	-188.3	-85.2	0.0
96	-264.1	-114.2	0.0	97	-339.9	-143.2	0.0	98	-415.7	-172.2	0.0
99	-163.9	-163.9	0.0	100	-215.3	-215.3	0.0	101	-266.8	-266.8	0.0
102	-85.2	-188.3	0.0	103	-114.2	-264.1	0.0	104	-143.2	-339.9	0.0
105	-172.2	-415.7	0.0	106	0.0	-196.9	0.0	107	0.0	-281.2	0.0
108	0.0	-365.6	0.0	109	85.2	-188.3	0.0	110	114.2	-264.1	0.0
111	143.2	-339.9	0.0	112	172.2	-415.7	0.0	113	163.9	-163.9	0.0
114	215.3	-215.3	0.0	115	266.8	-266.8	0.0	116	188.3	-85.2	0.0
117	264.1	-114.2	0.0	118	339.9	-143.2	0.0	119	415.7	-172.2	0.0
120	919.2	-919.2	0.0	121	1300.0	0.0	0.0	122	1275.0	253.6	0.0
123	-1275.0	-253.6	0.0	124	1201.0	497.5	0.0	125	253.6	-1275.0	0.0
126	1080.9	722.2	0.0	127	-1201.0	-497.5	0.0	128	919.2	919.2	0.0
129	1201.0	-497.5	0.0	130	722.2	1080.9	0.0	131	-1080.9	-722.2	0.0
132	497.5	1201.0	0.0	133	253.6	1275.0	0.0	134	497.5	-1201.0	0.0
135	0.0	1300.0	0.0	136	-919.2	-919.2	0.0	137	-253.6	1275.0	0.0
138	1080.9	-722.2	0.0	139	-497.5	1201.0	0.0	140	-722.2	-1080.9	0.0
141	-722.2	1080.9	0.0	142	722.2	-1080.9	0.0	143	-919.2	919.2	0.0
144	-497.5	-1201.0	0.0	145	-1080.9	722.2	0.0	146	-253.6	-1275.0	0.0
147	-1201.0	497.5	0.0	148	1275.0	-253.6	0.0	149	-1275.0	253.6	0.0
150	0.0	-1300.0	0.0	151	-1300.0	0.0	0.0	152	-52.9	-626.5	0.0
153	-78.4	-986.0	0.0	154	-126.8	-1287.5	0.0	155	-375.6	-1238.0	0.0
156	-609.9	-1141.0	0.0	157	-820.7	-1000.1	0.0	158	-1000.1	-820.7	0.0
159	-1141.0	-609.9	0.0	160	-1238.0	-375.6	0.0	161	-1287.5	-126.8	0.0
162	-1287.5	126.8	0.0	163	-1238.0	375.6	0.0	164	-1141.0	609.9	0.0
165	-1000.1	820.7	0.0	166	-820.7	1000.1	0.0	167	-609.9	1141.0	0.0
168	-375.6	1238.0	0.0	169	-126.8	1287.5	0.0	170	78.4	986.0	0.0
171	52.9	626.5	0.0	172	-163.5	626.3	0.0	173	-308.8	511.5	0.0
174	-431.5	407.6	0.0	175	-531.7	208.6	0.0	176	-575.6	-21.4	0.0
177	-587.8	-256.1	0.0	178	-411.9	-413.4	0.0	179	-293.3	-584.8	0.0
180	-316.4	-805.5	0.0	181	-245.9	-1009.2	0.0	182	-233.8	-1197.6	0.0
183	-325.7	-1108.9	0.0	184	-548.3	-1024.6	0.0	185	-650.5	-972.9	0.0
186	-899.9	-738.5	0.0	187	-973.9	-650.8	0.0	188	-1055.7	-427.1	0.0
189	-1113.8	-337.9	0.0	190	-1163.8	-8.8	0.0	191	-1158.5	114.0	0.0
192	-1066.4	470.8	0.0	193	-899.8	738.5	0.0	194	-828.3	828.2	0.0
195	-548.8	1026.4	0.0	196	-454.3	1067.7	0.0	197	-235.5	1120.3	0.0
198	-110.9	1145.6	0.0	199	-95.4	957.1	0.0	200	-88.3	785.8	0.0
201	-1022.0	-222.0	0.0	202	-1009.4	247.5	0.0	203	-921.7	536.1	0.0
204	-617.4	874.1	0.0	205	-380.5	-1006.7	0.0	206	-445.1	-896.4	0.0
207	-656.9	-746.7	0.0	208	-587.1	-848.9	0.0	209	-772.6	-659.8	0.0
210	-864.7	-570.7	0.0	211	-1013.9	-46.5	0.0	212	-771.7	605.9	0.0
213	-1031.3	119.0	0.0	214	-707.3	736.3	0.0	215	-218.1	965.4	0.0
216	-413.3	934.1	0.0	217	-202.1	832.2	0.0	218	-475.9	-766.3	0.0
219	-621.7	-428.1	0.0	220	-520.3	556.4	0.0	221	-722.5	290.5	0.0
222	-733.5	18.8	0.0	223	-876.5	279.1	0.0	224	-861.7	432.7	0.0
225	-875.6	-23.9	0.0	226	-603.8	641.7	0.0	227	-653.4	-565.3	0.0
228	-755.2	-512.3	0.0	229	-408.6	593.7	0.0	230	-846.9	-197.0	0.0
231	-530.2	754.6	0.0	232	-727.9	-152.2	0.0	233	-1067.9	364.5	0.0
234	-912.6	105.0	0.0	235	-660.9	1013.9	0.0	236	-1187.5	-248.4	0.0
237	-753.3	-409.9	0.0	238	-903.7	-471.7	0.0	239	-1067.6	569.1	0.0
240	-638.2	225.6	0.0	241	-555.4	416.9	0.0	242	-929.7	-351.1	0.0
243	-508.1	-503.9	0.0	244	-148.8	-1170.4	0.0	245	-312.9	908.6	0.0
246	-473.0	848.8	0.0	247	126.8	1287.5	0.0	248	375.6	1238.0	0.0
249	609.9	1141.0	0.0	250	820.7	1000.1	0.0	251	1000.1	820.7	0.0
252	1141.0	609.9	0.0	253	1238.0	375.6	0.0	254	1287.5	126.8	0.0
255	1287.5	-126.8	0.0	256	1238.0	-375.6	0.0	257	1141.0	-609.9	0.0
258	1000.1	-820.7	0.0	259	820.7	-1000.1	0.0	260	609.9	-1141.0	0.0
261	375.6	-1238.0	0.0	262	126.8	-1287.5	0.0	263	411.2	413.0	0.0
264	587.8	256.1	0.0	265	291.7	584.0	0.0	266	315.1	803.6	0.0
267	243.3	1011.6	0.0	268	233.8	1197.6	0.0	269	325.7	1108.9	0.0
270	548.3	1024.6	0.0	271	650.5	972.9	0.0	272	899.9	738.5	0.0
273	973.9	650.8	0.0	274	1055.7	427.1	0.0	275	1113.8	337.9	0.0
276	1171.3	-3.85e-02	0.0	277	1149.2	-122.4	0.0	278	1069.4	-477.6	0.0
279	899.8	-738.5	0.0	280	828.3	-828.2	0.0	281	563.2	-1021.7	0.0
282	458.4	-1044.6	0.0	283	228.9	-1150.6	0.0	284	110.9	-1145.6	0.0
285	95.4	-957.1	0.0	286	83.3	-790.0	0.0	287	140.5	-633.9	0.0
288	444.7	-396.1	0.0	289	526.7	-197.1	0.0	290	575.6	21.4	0.0
291	1022.0	222.0	0.0	292	1006.8	-322.5	0.0	293	911.5	-513.7	0.0
294	604.0	-878.7	0.0	295	380.5	1006.7	0.0	296	445.1	896.4	0.0
297	772.6	659.9	0.0	298	656.5	747.0	0.0	299	587.1	848.9	0.0
300	864.7	570.7	0.0	301	1035.6	9.7	0.0	302	1021.6	-123.8	0.0
303	787.2	-613.4	0.0	304	700.7	-738.1	0.0	305	229.8	-969.7	0.0
306	453.6	-917.7	0.0	307	475.2	766.6	0.0	308	213.5	-842.1	0.0
309	621.6	428.1	0.0	310	733.5	-18.8	0.0	311	870.3	-275.6	0.0
312	813.8	-435.1	0.0	313	512.8	-561.0	0.0	314	722.5	-290.5	0.0
315	875.6	23.9	0.0	316	601.4	-643.1	0.0	317	653.4	565.3	0.0
318	755.2	512.3	0.0	319	387.3	-598.9	0.0	320	424.5	-801.8	0.0
321	846.9	197.0	0.0	322	516.2	-734.2	0.0	323	727.9	152.2	0.0

324	671.9	-1011.8	0.0	325	912.6	-105.0	0.0	326	1156.5	-397.2	0.0
327	1187.5	248.4	0.0	328	753.3	409.9	0.0	329	903.7	471.7	0.0
330	639.4	-224.5	0.0	331	559.6	-415.5	0.0	332	929.7	351.1	0.0
333	508.0	503.9	0.0	334	148.8	1170.4	0.0	335	336.8	-938.2	0.0

Nodo	X cm	Y cm	Z cm	Note	Rig. TX daN/cm	Rig. TY daN/cm	Rig. TZ daN/cm	Rig. RX daN cm/rad	Rig. RY daN cm/rad	Rig. RZ daN cm/rad
1	51.0	1168.9	0.0	FS=3						
2	447.7	1080.9	0.0	FS=3						
3	790.4	862.6	0.0	FS=3						
4	1037.8	540.2	0.0	FS=3						
5	1160.0	152.7	0.0	FS=3						
6	1142.3	-253.2	0.0	FS=3						
7	803.1	-105.7	0.0	FS=3						
8	748.3	310.0	0.0	FS=3						
9	493.1	642.6	0.0	FS=3						
10	105.7	803.1	0.0	FS=3						
11	-1.07e-05	450.0	0.0	FS=3						
12	318.2	318.2	0.0	FS=3						
13	450.0	4.87e-05	0.0	FS=3						
14	318.2	-318.2	0.0	FS=3						
15	642.6	-493.1	0.0	FS=3						
16	986.8	-628.6	0.0	FS=3						
17	-1.07e-05	-450.0	0.0	FS=3						
18	-105.7	-803.1	0.0	FS=3						
19	310.0	-748.3	0.0	FS=3						
20	712.3	-928.2	0.0	FS=3						
21	351.8	-1115.8	0.0	FS=3						
22	-51.0	-1168.9	0.0	FS=3						
23	-447.7	-1080.9	0.0	FS=3						
24	-790.4	-862.6	0.0	FS=3						
25	-493.1	-642.6	0.0	FS=3						
26	-318.2	-318.2	0.0	FS=3						
27	-748.3	-310.0	0.0	FS=3						
28	-1037.8	-540.2	0.0	FS=3						
29	-1160.0	-152.7	0.0	FS=3						
30	-803.1	105.7	0.0	FS=3						
31	-450.0	4.87e-05	0.0	FS=3						
32	-318.2	318.2	0.0	FS=3						
33	-642.6	493.1	0.0	FS=3						
34	-986.8	628.6	0.0	FS=3						
35	-1142.3	253.2	0.0	FS=3						
36	-712.3	928.2	0.0	FS=3						
37	-310.0	748.3	0.0	FS=3						
38	-351.8	1115.8	0.0	FS=3						



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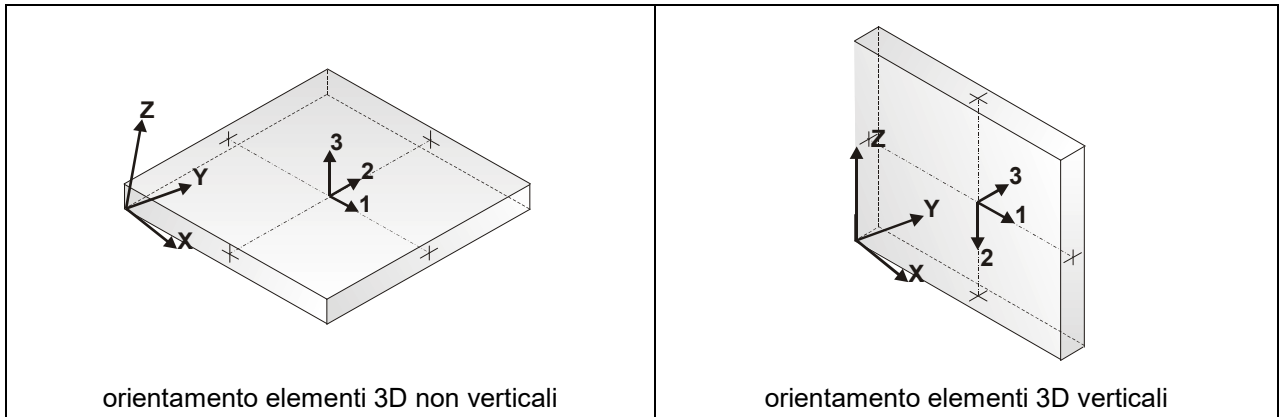
# MODELLAZIONE STRUTTURALE: ELEMENTI SHELL

## LEGENDA TABELLA DATI SHELL

Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi).

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



In particolare per ogni elemento viene indicato in tabella:

<b>Elem.</b>	numero dell'elemento
<b>Note</b>	codice di comportamento: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
<b>Nodo I (J, K, L)</b>	numero del nodo I (J, K, L)
<b>Mat.</b>	codice del materiale assegnato all'elemento
<b>Spessore</b>	spessore dell'elemento (costante)
<b>Wink V</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
<b>Wink O</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore cm	Svincolo	Wink V daN/cm3	Wink O daN/cm3
1	Guscio	39	40	41	42	6	2	340.0			
2	Guscio	42	41	43	44	6	2	340.0			
3	Guscio	44	43	45	46	6	2	340.0			
4	Guscio	46	45	47	48	6	2	340.0			
5	Guscio	40	49	50	41	6	2	340.0			
6	Guscio	41	50	51	43	6	2	340.0			
7	Guscio	43	51	52	45	6	2	340.0			
8	Guscio	45	52	53	47	6	2	340.0			
9	Guscio	49	54	55	50	6	2	340.0			
10	Guscio	50	55	56	51	6	2	340.0			
11	Guscio	51	56	57	52	6	2	340.0			
12	Guscio	52	57	58	53	6	2	340.0			
13	Guscio	54	59	60	55	6	2	340.0			
14	Guscio	55	60	61	56	6	2	340.0			
15	Guscio	56	61	62	57	6	2	340.0			
16	Guscio	57	62	63	58	6	2	340.0			
17	Guscio	61	64	65	62	6	2	340.0			
18	Guscio	64	66	67	65	6	2	340.0			
19	Guscio	66	68	69	67	6	2	340.0			
20	Guscio	68	13	70	69	6	2	340.0			
21	Guscio	62	65	71	63	6	2	340.0			
22	Guscio	65	67	72	71	6	2	340.0			
23	Guscio	67	69	73	72	6	2	340.0			
24	Guscio	69	70	12	73	6	2	340.0			
25	Guscio	58	63	71	74	6	2	340.0			
26	Guscio	74	71	72	75	6	2	340.0			
27	Guscio	75	72	73	76	6	2	340.0			
28	Guscio	76	73	12	77	6	2	340.0			
29	Guscio	53	58	74	78	6	2	340.0			
30	Guscio	78	74	75	79	6	2	340.0			
31	Guscio	79	75	76	80	6	2	340.0			
32	Guscio	80	76	77	11	6	2	340.0			
33	Guscio	47	53	78	81	6	2	340.0			
34	Guscio	81	78	79	82	6	2	340.0			
35	Guscio	82	79	80	83	6	2	340.0			
36	Guscio	83	80	11	84	6	2	340.0			
37	Guscio	48	47	81	85	6	2	340.0			
38	Guscio	85	81	82	86	6	2	340.0			
39	Guscio	86	82	83	87	6	2	340.0			
40	Guscio	87	83	84	32	6	2	340.0			
41	Guscio	88	46	48	85	6	2	340.0			
42	Guscio	89	88	85	86	6	2	340.0			
43	Guscio	90	89	86	87	6	2	340.0			
44	Guscio	91	90	87	32	6	2	340.0			
45	Guscio	92	44	46	88	6	2	340.0			
46	Guscio	93	92	88	89	6	2	340.0			
47	Guscio	94	93	89	90	6	2	340.0			
48	Guscio	31	94	90	91	6	2	340.0			
49	Guscio	95	42	44	92	6	2	340.0			
50	Guscio	96	95	92	93	6	2	340.0			
51	Guscio	97	96	93	94	6	2	340.0			
52	Guscio	98	97	94	31	6	2	340.0			
53	Guscio	99	39	42	95	6	2	340.0			
54	Guscio	100	99	95	96	6	2	340.0			
55	Guscio	101	100	96	97	6	2	340.0			
56	Guscio	26	101	97	98	6	2	340.0			
57	Guscio	99	102	40	39	6	2	340.0			
58	Guscio	100	103	102	99	6	2	340.0			
59	Guscio	101	104	103	100	6	2	340.0			
60	Guscio	26	105	104	101	6	2	340.0			
61	Guscio	102	106	49	40	6	2	340.0			
62	Guscio	103	107	106	102	6	2	340.0			
63	Guscio	104	108	107	103	6	2	340.0			
64	Guscio	105	17	108	104	6	2	340.0			
65	Guscio	106	109	54	49	6	2	340.0			
66	Guscio	107	110	109	106	6	2	340.0			
67	Guscio	108	111	110	107	6	2	340.0			
68	Guscio	17	112	111	108	6	2	340.0			
69	Guscio	109	113	59	54	6	2	340.0			
70	Guscio	110	114	113	109	6	2	340.0			
71	Guscio	111	115	114	110	6	2	340.0			
72	Guscio	112	14	115	111	6	2	340.0			
73	Guscio	59	113	116	60	6	2	340.0			

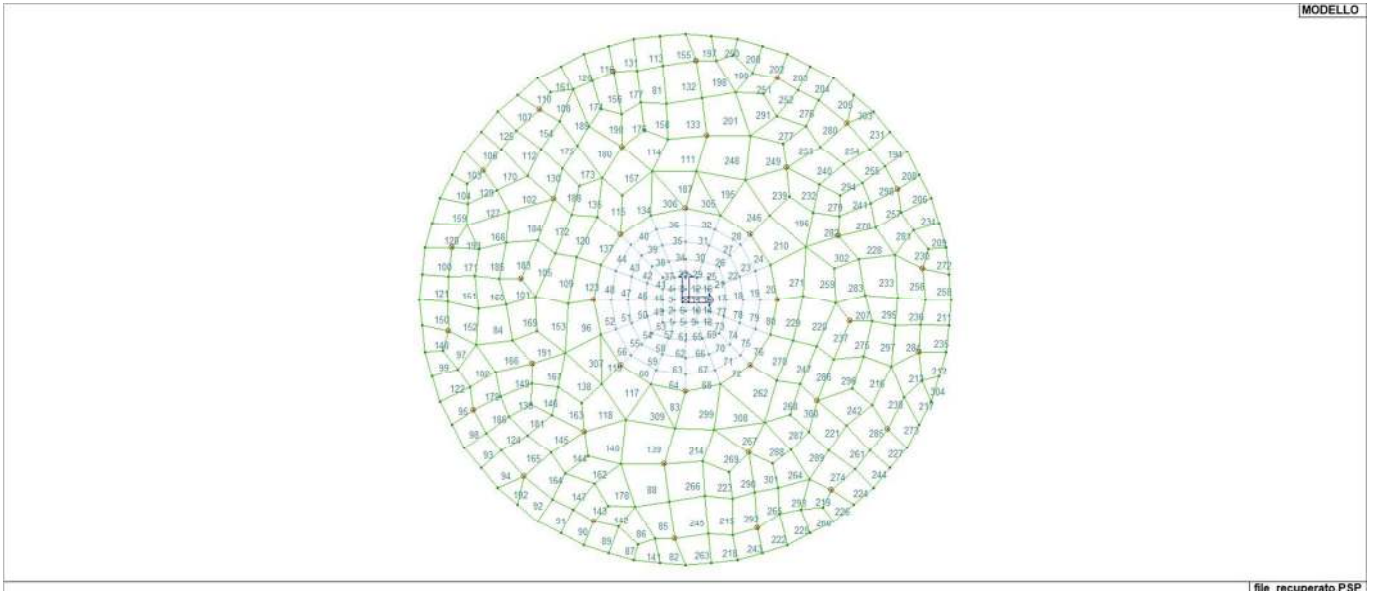
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77	Guscio	60	116	64	61	6	2	340.0
78	Guscio	116	117	66	64	6	2	340.0
79	Guscio	117	118	68	66	6	2	340.0
80	Guscio	118	119	13	68	6	2	340.0
81	Guscio	215	199	198	197	6	2	200.0
82	Guscio	154	150	22	244	6	2	200.0
83	Guscio	105	152	17		6	2	200.0
84	Guscio	201	230	225	211	6	2	200.0
85	Guscio	244	22	153	181	6	2	200.0
86	Guscio	182	244	181	183	6	2	200.0
87	Guscio	155	146	182	183	6	2	200.0
88	Guscio	181	153	18	180	6	2	200.0
89	Guscio	144	155	183	23	6	2	200.0
90	Guscio	156	144	23	184	6	2	200.0
91	Guscio	140	156	184	185	6	2	200.0
92	Guscio	157	140	185	24	6	2	200.0
93	Guscio	158	186	187	131	6	2	200.0
94	Guscio	136	24	186	158	6	2	200.0
95	Guscio	159	28	188	127	6	2	200.0
96	Guscio	177	98	31	176	6	2	200.0
97	Guscio	236	189	201	29	6	2	200.0
98	Guscio	131	187	28	159	6	2	200.0
99	Guscio	160	189	236	123	6	2	200.0
100	Guscio	162	191	35	149	6	2	200.0
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103	Guscio	164	239	34	145	6	2	200.0
104	Guscio	147	192	239	164	6	2	200.0
105	Guscio	30	222	240	221	6	2	200.0
106	Guscio	145	34	193	165	6	2	200.0
107	Guscio	143	194	36	166	6	2	200.0
108	Guscio	36	204	195	235	6	2	200.0
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111	Guscio	172	171	10	200	6	2	200.0
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114	Guscio	37	172	200	217	6	2	200.0
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126	Guscio	195	196	139	167	6	2	200.0
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128	Guscio	149	35	233	163	6	2	200.0
129	Guscio	192	203	34	239	6	2	200.0
130	Guscio	212	33	226	214	6	2	200.0
131	Guscio	38	197	137	168	6	2	200.0
132	Guscio	199	170	1	198	6	2	200.0
133	Guscio	200	10	170	199	6	2	200.0
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137	Guscio	175	91	32	174	6	2	200.0
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141	Guscio	146	154	244	182	6	2	200.0
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144	Guscio	208	218	25	207	6	2	200.0
145	Guscio	209	207	25	227	6	2	200.0
146	Guscio	228	227	219	237	6	2	200.0
147	Guscio	185	184	206	208	6	2	200.0
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149	Guscio	238	237	27	242	6	2	200.0
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151	Guscio	190	211	213	191	6	2	200.0
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153	Guscio	232	177	176	222	6	2	200.0
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157	Guscio	229	173	172	37	6	2	200.0
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159	Guscio	163	233	192	147	6	2	200.0
160	Guscio	211	225	234	213	6	2	200.0
161	Guscio	235	195	167	141	6	2	200.0
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163	Guscio	227	25	243	219	6	2	200.0
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166	Guscio	242	27	230	201	6	2	200.0
167	Guscio	237	219	177	27	6	2	200.0
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189	Guscio	204	231	246	195	6	2	200.0
190	Guscio	246	37	245	216	6	2	200.0
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192	Guscio	136	157	24		6	2	200.0
193	Guscio	35	202	233		6	2	200.0
194	Guscio	273	126	251	272	6	2	200.0
195	Guscio	171	77	265		6	2	200.0
196	Guscio	263	264	309	333	6	2	200.0
197	Guscio	1	334	247	135	6	2	200.0
198	Guscio	170	267	334	1	6	2	200.0
199	Guscio	267	269	268	334	6	2	200.0
200	Guscio	268	269	248	133	6	2	200.0
201	Guscio	10	266	267	170	6	2	200.0
202	Guscio	269	2	132	248	6	2	200.0
203	Guscio	2	270	249	132	6	2	200.0
204	Guscio	270	271	130	249	6	2	200.0
205	Guscio	271	3	250	130	6	2	200.0
206	Guscio	274	124	252	4	6	2	200.0
207	Guscio	7	325	315	310	6	2	200.0
208	Guscio	4	252	126	273	6	2	200.0
209	Guscio	327	122	253	275	6	2	200.0
210	Guscio	70	264	263	12	6	2	200.0
211	Guscio	277	255	121	276	6	2	200.0
212	Guscio	326	256	148	6	6	2	200.0
213	Guscio	278	326	6	292	6	2	200.0
214	Guscio	18	286	287	152	6	2	200.0
215	Guscio	284	283	305	285	6	2	200.0
216	Guscio	312	293	292	311	6	2	200.0
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218	Guscio	262	125	283	284	6	2	200.0
219	Guscio	281	324	20	294	6	2	200.0
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222	Guscio	261	134	282	21	6	2	200.0
223	Guscio	285	305	308	286	6	2	200.0
224	Guscio	20	259	120	280	6	2	200.0
225	Guscio	134	260	281	282	6	2	200.0
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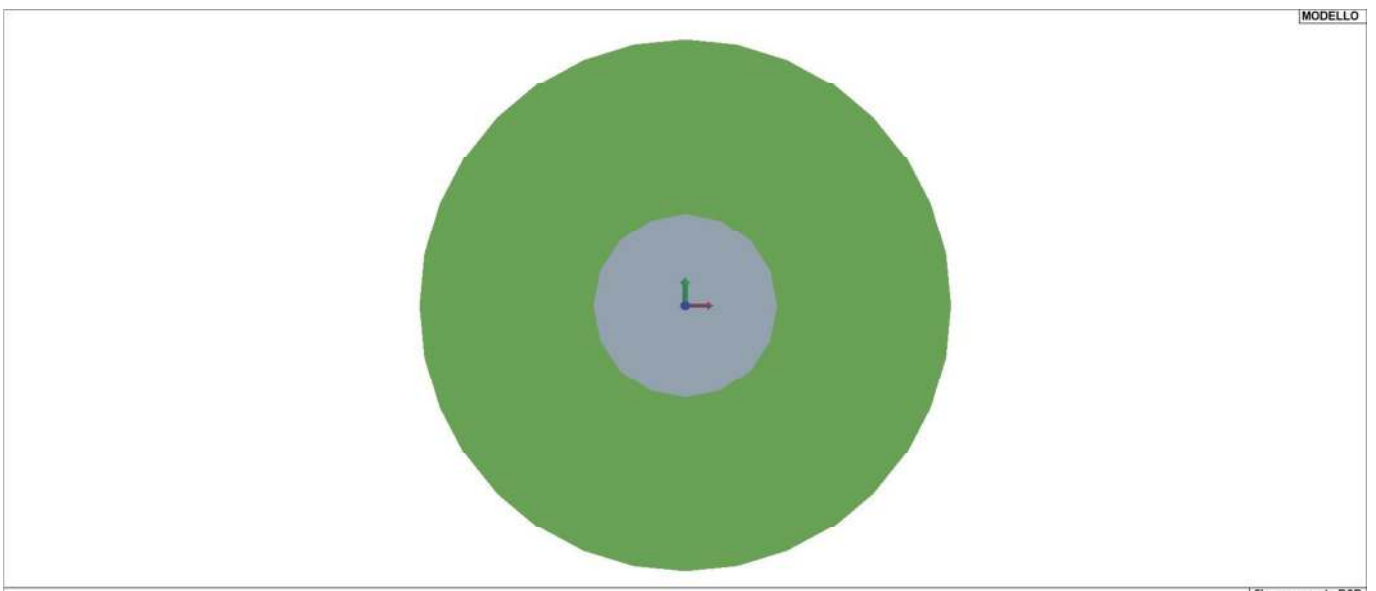


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232	Guscio	333	309	317	9	6	2	200.0
233	Guscio	315	301	291	321	6	2	200.0
234	Guscio	275	253	124	274	6	2	200.0
235	Guscio	6	148	255	277	6	2	200.0
236	Guscio	302	277	276	301	6	2	200.0
237	Guscio	330	314	7	310	6	2	200.0
238	Guscio	16	278	292	293	6	2	200.0
239	Guscio	263	333	9	265	6	2	200.0
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242	Guscio	303	293	312	15	6	2	200.0
243	Guscio	125	261	21	283	6	2	200.0
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245	Guscio	22	284	285	153	6	2	200.0
246	Guscio	77	12	263	265	6	2	200.0
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260	Guscio	260	142	324	281	6	2	200.0
261	Guscio	304	280	279	303	6	2	200.0
262	Guscio	112	319	288	14	6	2	200.0
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264	Guscio	306	294	322	320	6	2	200.0
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266	Guscio	153	285	286	18	6	2	200.0
267	Guscio	287	19	319		6	2	200.0
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272	Guscio	5	254	122	327	6	2	200.0
273	Guscio	16	138	257	278	6	2	200.0
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275	Guscio	314	311	325	7	6	2	200.0
276	Guscio	296	299	271	270	6	2	200.0
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284	Guscio	292	6	277	302	6	2	200.0
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291	Guscio	266	296	295	267	6	2	200.0
292	Guscio	283	21	335	305	6	2	200.0
293	Guscio	282	281	294	306	6	2	200.0
294	Guscio	318	300	297	317	6	2	200.0
295	Guscio	325	302	301	315	6	2	200.0
296	Guscio	15	312	311	314	6	2	200.0
297	Guscio	311	292	302	325	6	2	200.0
298	Guscio	329	4	273	300	6	2	200.0
299	Guscio	152	287	112	17	6	2	200.0
300	Guscio	313	316	15	331	6	2	200.0
301	Guscio	335	306	320	19	6	2	200.0
302	Guscio	323	321	8	264	6	2	200.0
303	Guscio	3	128	250		6	2	200.0
304	Guscio	326	129	256		6	2	200.0

305	Guscio	11	77	171	6	2	200.0
306	Guscio	84	11	172	6	2	200.0
307	Guscio	177	178	98	6	2	200.0
308	Guscio	287	319	112	6	2	200.0
309	Guscio	179	152	105	6	2	200.0



16\_MOD\_NUMERAZIONE\_D3



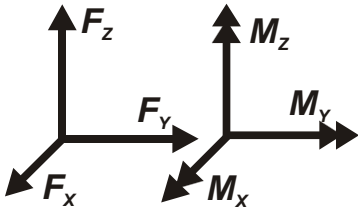
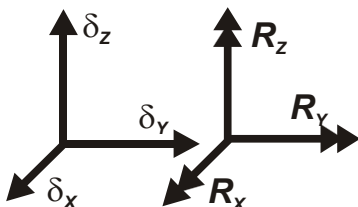
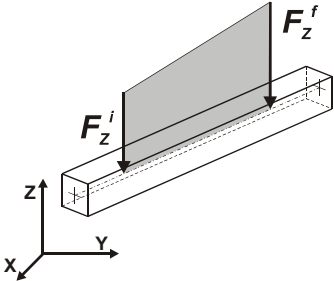
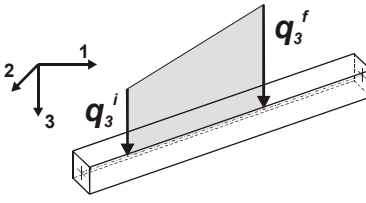
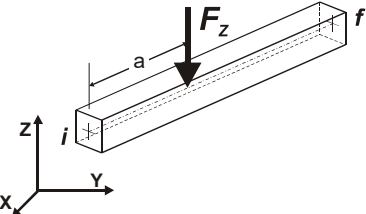
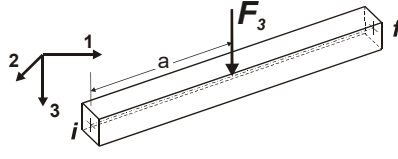
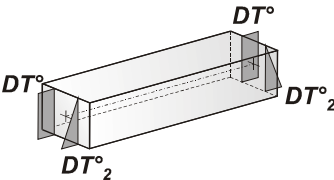
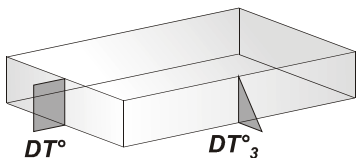
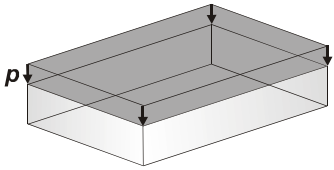
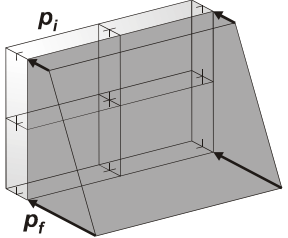
16\_MOD\_SPESSORI\_D3

# MODELLAZIONE DELLE AZIONI

## LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

<b>1</b>	<b>carico concentrato nodale</b> 6 dati (forza $F_x$ , $F_y$ , $F_z$ , momento $M_x$ , $M_y$ , $M_z$ )
<b>2</b>	<b>spostamento nodale impresso</b> 6 dati (spostamento $T_x, T_y, T_z$ , rotazione $R_x, R_y, R_z$ )
<b>3</b>	<b>carico distribuito globale su elemento tipo trave</b> 7 dati ( $f_x, f_y, f_z, m_x, m_y, m_z$ , ascissa di inizio carico) 7 dati ( $f_x, f_y, f_z, m_x, m_y, m_z$ , ascissa di fine carico)
<b>4</b>	<b>carico distribuito locale su elemento tipo trave</b> 7 dati ( $f_1, f_2, f_3, m_1, m_2, m_3$ , ascissa di inizio carico) 7 dati ( $f_1, f_2, f_3, m_1, m_2, m_3$ , ascissa di fine carico)
<b>5</b>	<b>carico concentrato globale su elemento tipo trave</b> 7 dati ( $F_x, F_y, F_z, M_x, M_y, M_z$ , ascissa di carico)
<b>6</b>	<b>carico concentrato locale su elemento tipo trave</b> 7 dati ( $F_1, F_2, F_3, M_1, M_2, M_3$ , ascissa di carico)
<b>7</b>	<b>variazione termica applicata ad elemento tipo trave</b> 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
<b>8</b>	<b>carico di pressione uniforme su elemento tipo piastra</b> 1 dato (pressione)
<b>9</b>	<b>carico di pressione variabile su elemento tipo piastra</b> 4 dati (pressione, quota, pressione, quota)
<b>10</b>	<b>variazione termica applicata ad elemento tipo piastra</b> 2 dati (variazioni termiche: media e differenza nello spessore)
<b>11</b>	<b>carico variabile generale su elementi tipo trave e piastra</b> 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
<b>12</b>	<b>gruppo di carichi con impronta su piastra</b> 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)

	Carico concentrato nodale		Spostamento impresso
	Carico distribuito globale		Carico distribuito locale
	Carico concentrato globale		Carico concentrato locale
	Carico termico 2D		Carico termico 3D
	Carico pressione uniforme		Carico pressione variabile

**Tipo carico concentrato nodale**

Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
		kN	kN	kN	kN m	kN m	kN m
9	Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06	122.00	0.0	-1132.00	0.0	1.156e+04	225.00
10	Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06	68.00	0.0	-1124.00	0.0	7431.00	307.00
11	Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06	84.00	0.0	-1116.00	0.0	8478.00	575.00
12	Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My= 1.791e+07 Mz= 4.690e+06	20.00	0.0	-1152.00	0.0	1791.00	469.00
13	Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My= 1.157e+08 Mz= 2.390e+06	121.00	0.0	-1132.00	0.0	1.157e+04	239.00
14	Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06	24.00	0.0	-1112.00	0.0	2698.00	964.00
15	Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07	84.00	0.0	-1124.00	0.0	9697.00	0.0

# SCHEMATIZZAZIONE DEI CASI DI CARICO

## LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

	<b>Sigla</b>	<b>Tipo</b>	<b>Descrizione</b>
<b>1</b>	<b>Ggk</b>	A	caso di carico comprensivo del peso proprio struttura
<b>2</b>	<b>Gk</b>	NA	caso di carico con azioni permanenti
<b>3</b>	<b>Qk</b>	NA	caso di carico con azioni variabili
<b>4</b>	<b>Gsk</b>	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
<b>5</b>	<b>Qsk</b>	A	caso di carico comprensivo dei carichi variabili sui solai
<b>6</b>	<b>Qnk</b>	A	caso di carico comprensivo dei carichi di neve sulle coperture
<b>7</b>	<b>Qtk</b>	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
<b>8</b>	<b>Qvk</b>	NA	caso di carico comprensivo di azioni da vento sulla struttura
<b>9</b>	<b>Esk</b>	SA	caso di carico sismico con analisi statica equivalente
<b>10</b>	<b>Edk</b>	SA	caso di carico sismico con analisi dinamica
<b>11</b>	<b>Etk</b>	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
<b>12</b>	<b>Pk</b>	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

*Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).*

In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gk	CDC=G1k (permanente generico) SLU FOND 1	Azioni applicate:  Nodo:da 68 a 69 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06 Nodo: 73 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06

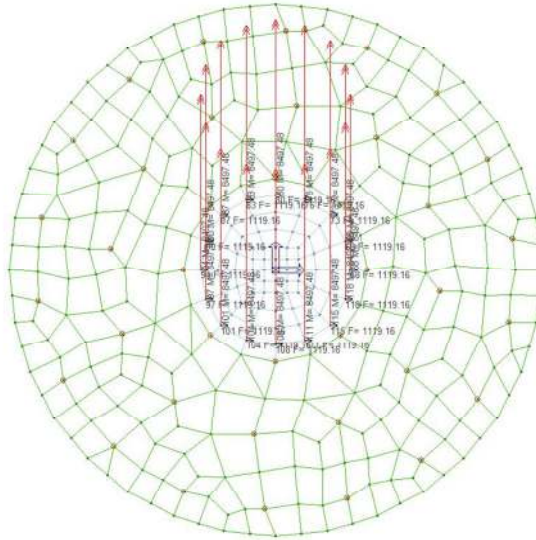
CDC	Tipo	Sigla Id	Note
			Nodo: 76 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 80 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 83 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 87 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 90 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 94 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 97 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 101 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 104 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 108 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 111 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 115 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
			Nodo: 118 Azione : Carichi fond. comb. 1-CN:Fx= 1.220e+04 Fz=-1.132e+05 My= 1.156e+08 Mz= 2.250e+06
3	Gk	CDC=G1k (permanente generico) SLE FREQ	Azioni applicate: Nodo:da 68 a 69 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 73 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 76 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 80 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 83 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 87 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 90 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 94 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 97 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 101 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 104 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 108 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 111 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 115 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
			Nodo: 118 Azione : Carichi - SLE FREQ.-CN:Fx=8400.00 Fz=-1.116e+05 My= 8.478e+07 Mz= 5.750e+06
4	Gk	CDC=G1k (permanente generico) SLE Q.P.	Azioni applicate: Nodo:da 68 a 69 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 73 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 76 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 80 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 83 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 87 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 90 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 94 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06
			Nodo: 97 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My= 7.431e+07 Mz= 3.070e+06

CDC	Tipo	Sigla Id	Note
			7.431e+07 Mz= 3.070e+06
			Nodo: 101 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My=7.431e+07 Mz= 3.070e+06
			Nodo: 104 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My=7.431e+07 Mz= 3.070e+06
			Nodo: 108 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My=7.431e+07 Mz= 3.070e+06
			Nodo: 111 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My=7.431e+07 Mz= 3.070e+06
			Nodo: 115 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My=7.431e+07 Mz= 3.070e+06
			Nodo: 118 Azione : Carichi - SLE Q.P.-CN:Fx=6800.00 Fz=-1.124e+05 My=7.431e+07 Mz= 3.070e+06
5	Gk	CDC=G1k (permanente generico) FOND 2	Azioni applicate:
			Nodo:da 68 a 69 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My= 1.791e+07 Mz= 4.690e+06
			Nodo: 73 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 76 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 80 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 83 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 87 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 90 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 94 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 97 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 101 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 104 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 108 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 111 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 115 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
			Nodo: 118 Azione : Carichi fond. comb. 2-CN:Fx=2000.00 Fz=-1.152e+05 My=1.791e+07 Mz= 4.690e+06
6	Gk	CDC=G1k (permanente generico) FOND 3	Azioni applicate:
			Nodo:da 68 a 69 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My= 1.157e+08 Mz= 2.390e+06
			Nodo: 73 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 76 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 80 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 83 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 87 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 90 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 94 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 97 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 101 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 104 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 108 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 111 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
			Nodo: 115 Azione : Carichi fond. comb. 3-CN:Fx= 1.210e+04 Fz=-1.132e+05 My=1.157e+08 Mz= 2.390e+06
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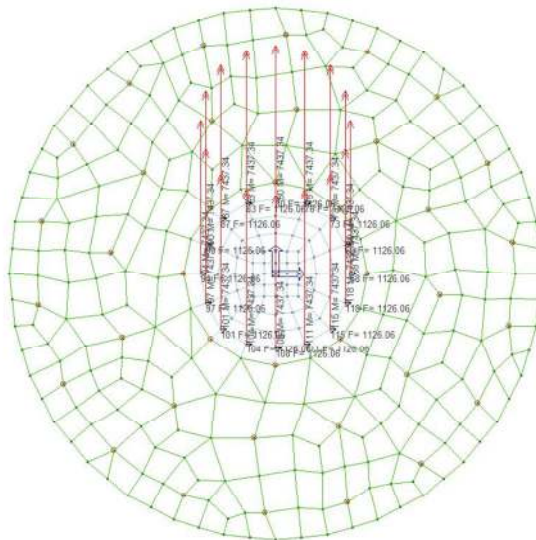
CDC	Tipo	Sigla Id	Note
7	Gk	CDC=G1k (permanente generico) FOND 4	Azioni applicate: Nodo:da 68 a 69 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 73 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 76 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 80 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 83 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 87 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 90 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 94 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 97 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 101 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 104 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 108 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 111 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 115 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
			Nodo: 118 Azione : Carichi fond. comb. 4-CN:Fx=2400.00 Fz=-1.112e+05 My= 2.698e+07 Mz= 9.640e+06
8	Gk	CDC= SISMA	Azioni applicate: Nodo:da 68 a 69 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 73 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 76 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 80 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 83 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 87 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 90 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 94 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 97 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 101 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 104 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 108 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 111 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 115 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07
			Nodo: 118 Azione : Carichi sismici-CN:Fx=8400.00 Fz=-1.124e+05 My= 9.697e+07





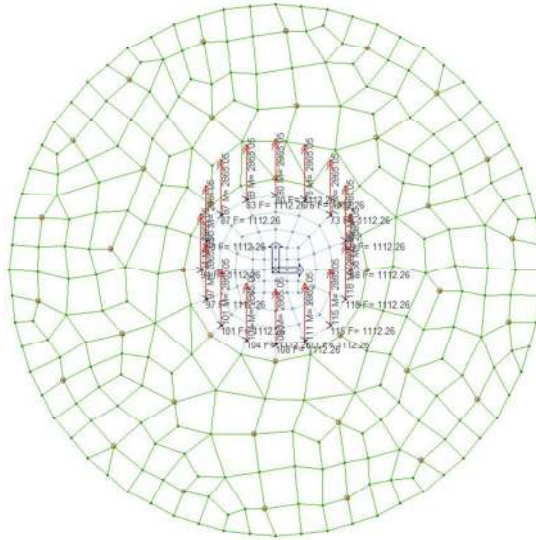


22\_CDC\_003\_CDC=G1k (permanente generico) SLE FREQ

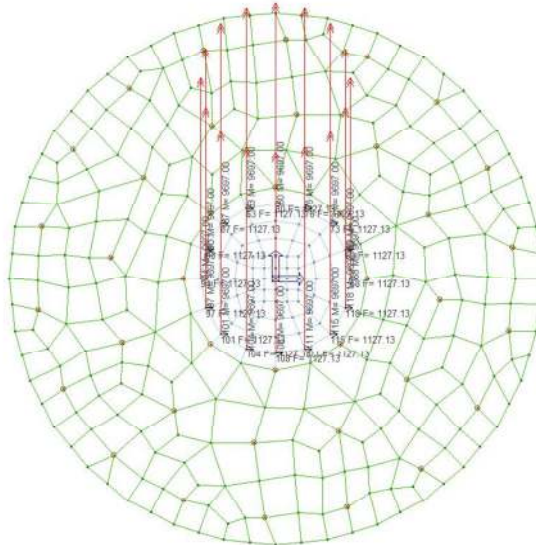


22\_CDC\_004\_CDC=G1k (permanente generico) SLE Q.P.





22\_CDC\_007\_CDC=G1k (permanente generico) FOND 4



22\_CDC\_008\_CDC= SISMA

# DEFINIZIONE DELLE COMBINAZIONI

## LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente. Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

### Combinazione fondamentale SLU

$$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \dots$$

### Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \dots$$

### Combinazione frequente SLE

$$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

### Combinazione quasi permanente SLE

$$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

### Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

### Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	$\psi 0$	$\psi 1$	$\psi 2$
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini, ...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30kN$ )	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30kN$ )	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota $\leq 1000$ m	0,50	0,20	0,00
Neve a quota $> 1000$ m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente $\gamma_f$	EQU	A1	A2
<i>Carichi permanenti</i>	<i>Favorevoli</i>	$\gamma_{G1}$	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali</i> <i>(Non compiutamente definiti)</i>	<i>Favorevoli</i>	$\gamma_{G2}$	0,8	0,8	0,8
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	$\gamma_{Qi}$	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU FOND 1	
2	SLU	Comb. SLU FOND 2	
3	SLE(f)	Comb. SLE(freq.) 3	
4	SLE(p)	Comb. SLE(perm.) 4	
5	SLU	Comb. SLU FOND 3	
6	SLU	Comb. SLU FOND 4	
7	SLU	Comb. SISMICA SLV	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0						
2	1.30	0.0	0.0	0.0	1.00	0.0	0.0	0.0						
3	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0						
4	1.00	0.0	0.0	1.00	0.0	0.0	0.0	0.0						
5	1.30	0.0	0.0	0.0	0.0	1.00	0.0	0.0						
6	1.30	0.0	0.0	0.0	0.0	0.0	1.00	0.0						
7	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00						



# RISULTATI NODALI

## LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Nodo	Cmb	Traslazione X cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	1	1.65	-2.15e-04	-10.29	2.45e-04	5.25e-03	0.0
1	3	1.20	-1.94e-04	-8.61	2.28e-04	3.84e-03	0.0
1	4	1.05	-1.94e-04	-8.61	2.29e-04	3.36e-03	0.0
1	5	1.65	-2.15e-04	-10.29	2.45e-04	5.25e-03	0.0
2	1	1.65	-9.23e-05	-12.39	3.02e-04	5.13e-03	0.0
2	2	0.26	-1.67e-04	-10.45	2.35e-04	7.19e-04	0.0
2	3	1.20	-1.07e-04	-10.15	2.66e-04	3.74e-03	0.0
2	4	1.05	-1.22e-04	-9.96	2.60e-04	3.26e-03	0.0
2	5	1.65	-9.36e-05	-12.40	3.02e-04	5.13e-03	0.0
3	1	1.65	0.0	-14.21	2.91e-04	4.99e-03	0.0
3	2	0.26	-1.24e-04	-10.73	1.96e-04	6.38e-04	0.0
3	3	1.20	-3.58e-05	-11.48	2.49e-04	3.62e-03	0.0
3	4	1.05	-5.86e-05	-11.12	2.40e-04	3.15e-03	0.0
3	5	1.65	-2.53e-06	-14.21	2.91e-04	5.00e-03	0.0
4	1	1.65	1.61e-05	-15.52	2.05e-04	4.86e-03	0.0
4	2	0.26	-8.38e-05	-10.93	1.25e-04	5.74e-04	0.0
4	3	1.20	-1.29e-05	-12.44	1.73e-04	3.52e-03	0.0
4	4	1.05	-3.13e-05	-11.96	1.65e-04	3.05e-03	0.0
4	5	1.65	1.46e-05	-15.52	2.05e-04	4.87e-03	0.0
5	1	1.65	1.52e-06	-16.17	5.85e-05	4.79e-03	0.0
5	2	0.26	-3.55e-05	-11.03	3.54e-05	5.42e-04	0.0
5	3	1.20	-6.25e-06	-12.91	4.92e-05	3.46e-03	0.0
5	4	1.05	-1.28e-05	-12.37	4.68e-05	3.00e-03	0.0
5	5	1.65	1.01e-06	-16.17	5.85e-05	4.80e-03	0.0
6	1	1.65	-6.38e-05	-16.07	-9.89e-05	4.81e-03	0.0
6	3	1.20	-3.62e-05	-12.84	-8.30e-05	3.47e-03	0.0
6	4	1.05	-2.53e-05	-12.31	-7.90e-05	3.00e-03	0.0
6	5	1.65	-6.30e-05	-16.08	-9.89e-05	4.81e-03	0.0
7	1	1.65	-5.36e-05	-14.45	-6.36e-05	4.87e-03	0.0
7	3	1.20	-3.46e-05	-11.67	-5.29e-05	3.51e-03	0.0
7	4	1.05	-2.86e-05	-11.30	-5.01e-05	3.05e-03	0.0
7	5	1.65	-5.32e-05	-14.45	-6.36e-05	4.87e-03	0.0
8	1	1.65	-1.18e-05	-14.15	1.80e-04	4.92e-03	0.0
8	2	0.26	-6.79e-05	-10.80	1.05e-04	5.78e-04	0.0
8	3	1.20	-2.54e-05	-11.46	1.50e-04	3.55e-03	0.0
8	4	1.05	-3.64e-05	-11.11	1.43e-04	3.08e-03	0.0
8	5	1.65	-1.27e-05	-14.16	1.80e-04	4.92e-03	0.0
9	1	1.65	-4.60e-05	-12.78	3.10e-04	5.12e-03	0.0
9	2	0.26	-1.23e-04	-10.58	2.07e-04	6.72e-04	0.0
9	3	1.20	-6.40e-05	-10.45	2.65e-04	3.71e-03	0.0
9	4	1.05	-7.92e-05	-10.23	2.55e-04	3.23e-03	0.0
9	5	1.65	-4.73e-05	-12.78	3.10e-04	5.12e-03	0.0
10	1	1.65	-1.68e-04	-10.68	2.66e-04	5.32e-03	0.0
10	3	1.20	-1.53e-04	-8.92	2.43e-04	3.89e-03	0.0
10	4	1.05	-1.56e-04	-8.89	2.41e-04	3.40e-03	0.0
10	5	1.65	-1.68e-04	-10.68	2.66e-04	5.32e-03	0.0
11	1	1.65	-1.27e-04	-10.19	9.14e-05	5.56e-03	0.0
11	2	0.26	-9.55e-05	-10.25	9.26e-05	8.62e-04	0.0

11	3	1.20	-1.06e-04	-8.57	8.56e-05	4.07e-03	0.0
11	4	1.05	-1.03e-04	-8.59	8.61e-05	3.56e-03	0.0
11	5	1.65	-1.27e-04	-10.19	9.14e-05	5.56e-03	0.0
12	1	1.65	-5.16e-05	-11.95	8.45e-05	5.48e-03	0.0
12	3	1.20	-5.04e-05	-9.86	7.50e-05	4.00e-03	0.0
12	4	1.05	-5.49e-05	-9.72	7.35e-05	3.49e-03	0.0
12	5	1.65	-5.22e-05	-11.95	8.45e-05	5.48e-03	0.0
12	6	0.38	-6.77e-05	-10.54	6.81e-05	1.22e-03	0.0
13	1	1.65	-5.08e-05	-12.68	0.0	5.42e-03	0.0
13	3	1.20	-3.81e-05	-10.39	0.0	3.95e-03	0.0
13	4	1.05	-3.60e-05	-10.19	0.0	3.44e-03	0.0
13	5	1.65	-5.08e-05	-12.68	0.0	5.43e-03	0.0
14	1	1.65	-5.95e-05	-11.95	-8.46e-05	5.48e-03	0.0
14	3	1.20	-3.30e-05	-9.86	-7.51e-05	4.00e-03	0.0
14	4	1.05	-2.36e-05	-9.72	-7.36e-05	3.49e-03	0.0
14	5	1.65	-5.91e-05	-11.95	-8.46e-05	5.48e-03	0.0
15	1	1.65	-7.33e-05	-13.58	-2.66e-04	5.01e-03	0.0
15	3	1.20	-3.01e-05	-11.04	-2.24e-04	3.63e-03	0.0
15	4	1.05	-1.12e-05	-10.75	-2.14e-04	3.15e-03	0.0
15	5	1.65	-7.20e-05	-13.59	-2.66e-04	5.01e-03	0.0
16	1	1.65	-8.88e-05	-15.25	-2.32e-04	4.90e-03	0.0
16	3	1.20	-3.88e-05	-12.24	-1.96e-04	3.54e-03	0.0
16	4	1.05	-1.63e-05	-11.78	-1.87e-04	3.07e-03	0.0
16	5	1.65	-8.72e-05	-15.25	-2.32e-04	4.90e-03	0.0
17	1	1.65	-5.28e-06	-10.19	-9.12e-05	5.56e-03	0.0
17	2	0.26	2.74e-05	-10.25	-9.23e-05	8.62e-04	0.0
17	3	1.20	7.54e-06	-8.57	-8.54e-05	4.07e-03	0.0
17	4	1.05	1.12e-05	-8.59	-8.59e-05	3.56e-03	0.0
18	1	1.65	9.66e-05	-9.54	-1.98e-04	5.38e-03	0.0
18	2	0.26	1.08e-04	-10.08	-2.30e-04	8.61e-04	0.0
18	3	1.20	9.57e-05	-8.08	-1.93e-04	3.94e-03	0.0
18	4	1.05	9.56e-05	-8.16	-1.97e-04	3.45e-03	0.0
19	1	1.65	-1.45e-05	-11.79	-3.07e-04	5.23e-03	0.0
19	2	0.26	8.26e-05	-10.43	-2.33e-04	7.35e-04	0.0
19	3	1.20	1.95e-05	-9.73	-2.69e-04	3.81e-03	0.0
19	4	1.05	3.50e-05	-9.60	-2.62e-04	3.32e-03	0.0
19	5	1.65	-1.35e-05	-11.79	-3.07e-04	5.23e-03	0.0
20	1	1.65	-6.68e-05	-13.80	-3.00e-04	5.02e-03	0.0
20	2	0.26	7.89e-05	-10.66	-2.08e-04	6.55e-04	0.0
20	3	1.20	-1.37e-05	-11.18	-2.58e-04	3.65e-03	0.0
20	4	1.05	1.12e-05	-10.85	-2.49e-04	3.17e-03	0.0
20	5	1.65	-6.50e-05	-13.80	-3.00e-04	5.03e-03	0.0
21	1	1.65	1.33e-05	-11.89	-2.91e-04	5.17e-03	0.0
21	2	0.26	1.16e-04	-10.37	-2.39e-04	7.41e-04	0.0
21	3	1.20	4.72e-05	-9.78	-2.59e-04	3.77e-03	0.0
21	4	1.05	6.40e-05	-9.63	-2.55e-04	3.29e-03	0.0
21	5	1.65	1.43e-05	-11.89	-2.91e-04	5.17e-03	0.0
22	1	1.65	1.16e-04	-9.75	-2.28e-04	5.27e-03	0.0
22	2	0.26	1.37e-04	-10.04	-2.39e-04	8.28e-04	0.0
22	3	1.20	1.17e-04	-8.22	-2.15e-04	3.86e-03	0.0
22	4	1.05	1.19e-04	-8.26	-2.17e-04	3.38e-03	0.0
23	1	1.65	1.85e-04	-7.65	-1.36e-04	5.31e-03	0.0
23	2	0.26	1.37e-04	-9.71	-2.09e-04	9.02e-04	0.0
23	3	1.20	1.59e-04	-6.68	-1.44e-04	3.91e-03	0.0
23	4	1.05	1.48e-04	-6.92	-1.53e-04	3.43e-03	0.0
24	1	1.65	1.89e-04	-5.83	-5.96e-05	5.32e-03	0.0
24	2	0.26	1.09e-04	-9.43	-1.60e-04	9.63e-04	0.0
24	3	1.20	1.53e-04	-5.35	-7.92e-05	3.92e-03	0.0
24	4	1.05	1.35e-04	-5.76	-9.06e-05	3.45e-03	0.0
25	1	1.65	1.42e-04	-7.45	-6.11e-05	5.40e-03	0.0
25	2	0.26	9.23e-05	-9.76	-1.69e-04	9.60e-04	0.0
25	3	1.20	1.18e-04	-6.55	-8.28e-05	3.98e-03	0.0
25	4	1.05	1.07e-04	-6.82	-9.50e-05	3.50e-03	0.0
26	1	1.65	1.35e-05	-8.43	-4.38e-05	5.61e-03	0.0
26	2	0.26	1.46e-05	-9.97	-6.18e-05	9.25e-04	0.0
26	3	1.20	1.49e-05	-7.28	-4.52e-05	4.12e-03	0.0
26	4	1.05	1.25e-05	-7.47	-4.74e-05	3.61e-03	0.0
27	1	1.65	4.46e-05	-6.07	1.62e-06	5.35e-03	0.0
27	2	0.26	2.71e-05	-9.54	-7.63e-05	1.02e-03	0.0
27	3	1.20	3.75e-05	-5.54	-1.71e-05	3.96e-03	0.0
27	4	1.05	3.09e-05	-5.94	-2.58e-05	3.49e-03	0.0
28	1	1.65	1.04e-04	-4.52	-1.24e-05	5.29e-03	0.0
28	2	0.26	5.75e-05	-9.23	-9.53e-05	1.00e-03	0.0
28	3	1.20	8.29e-05	-4.39	-3.12e-05	3.91e-03	0.0
28	4	1.05	7.07e-05	-4.92	-4.04e-05	3.45e-03	0.0
29	1	1.65	-3.88e-05	-3.87	-2.56e-06	5.27e-03	0.0
29	2	0.26	-1.70e-05	-9.12	-2.67e-05	1.02e-03	0.0



29	3	1.20	-2.84e-05	-3.92	-8.18e-06	3.90e-03	0.0
29	4	1.05	-2.87e-05	-4.50	-1.09e-05	3.44e-03	0.0
29	5	1.65	-3.94e-05	-3.87	-2.54e-06	5.27e-03	0.0
30	1	1.65	-1.43e-04	-5.77	-1.33e-06	5.33e-03	0.0
30	2	0.26	-6.48e-05	-9.50	2.66e-05	1.03e-03	0.0
30	3	1.20	-1.08e-04	-5.33	5.31e-06	3.95e-03	0.0
30	4	1.05	-9.81e-05	-5.75	8.42e-06	3.48e-03	0.0
31	1	1.65	-8.11e-05	-7.70	0.0	5.60e-03	0.0
31	2	0.26	-3.82e-05	-9.86	0.0	9.48e-04	0.0
31	3	1.20	-6.05e-05	-6.75	0.0	4.12e-03	0.0
31	4	1.05	-5.61e-05	-7.00	0.0	3.62e-03	0.0
31	5	1.65	-8.12e-05	-7.70	0.0	5.61e-03	0.0
32	1	1.65	-1.67e-04	-8.43	4.39e-05	5.61e-03	0.0
32	2	0.26	-8.90e-05	-9.97	6.18e-05	9.25e-04	0.0
32	3	1.20	-1.30e-04	-7.28	4.53e-05	4.12e-03	0.0
32	4	1.05	-1.19e-04	-7.47	4.74e-05	3.61e-03	0.0
33	1	1.65	-2.89e-04	-6.64	1.89e-05	5.38e-03	0.0
33	2	0.26	-1.46e-04	-9.63	1.25e-04	9.95e-04	0.0
33	3	1.20	-2.23e-04	-5.96	4.31e-05	3.98e-03	0.0
33	4	1.05	-2.02e-04	-6.30	5.50e-05	3.50e-03	0.0
34	1	1.65	-3.34e-04	-4.79	2.24e-05	5.29e-03	0.0
34	2	0.26	-1.59e-04	-9.27	1.13e-04	9.94e-04	0.0
34	3	1.20	-2.56e-04	-4.59	4.22e-05	3.91e-03	0.0
34	4	1.05	-2.29e-04	-5.09	5.24e-05	3.45e-03	0.0
35	1	1.65	-2.10e-04	-3.97	4.43e-06	5.27e-03	0.0
35	2	0.26	-9.17e-05	-9.14	4.53e-05	1.02e-03	0.0
35	3	1.20	-1.58e-04	-3.99	1.37e-05	3.90e-03	0.0
35	4	1.05	-1.42e-04	-4.56	1.82e-05	3.44e-03	0.0
36	1	1.65	-3.77e-04	-6.25	7.64e-05	5.31e-03	0.0
36	2	0.26	-2.00e-04	-9.49	1.74e-04	9.50e-04	0.0
36	3	1.20	-2.95e-04	-5.65	9.42e-05	3.92e-03	0.0
36	4	1.05	-2.68e-04	-6.02	1.05e-04	3.44e-03	0.0
37	1	1.65	-2.89e-04	-8.44	1.25e-04	5.41e-03	0.0
37	2	0.26	-1.83e-04	-9.91	2.05e-04	9.16e-04	0.0
37	3	1.20	-2.35e-04	-7.28	1.36e-04	3.97e-03	0.0
37	4	1.05	-2.19e-04	-7.45	1.45e-04	3.49e-03	0.0
38	1	1.65	-3.29e-04	-8.16	1.59e-04	5.31e-03	0.0
38	2	0.26	-2.16e-04	-9.79	2.19e-04	8.86e-04	0.0
38	3	1.20	-2.70e-04	-7.05	1.62e-04	3.90e-03	0.0
38	4	1.05	-2.53e-04	-7.24	1.70e-04	3.42e-03	0.0
39	1	1.65	-5.47e-05	-9.59	-2.16e-05	5.57e-03	0.0
39	2	0.26	-2.14e-05	-10.17	-2.39e-05	8.85e-04	0.0
39	3	1.20	-3.86e-05	-8.14	-2.05e-05	4.08e-03	0.0
39	4	1.05	-3.52e-05	-8.22	-2.09e-05	3.57e-03	0.0
39	5	1.65	-5.48e-05	-9.59	-2.16e-05	5.58e-03	0.0
40	1	1.65	-5.38e-05	-9.90	-2.29e-05	5.56e-03	0.0
40	2	0.26	-2.11e-05	-10.22	-2.42e-05	8.73e-04	0.0
40	3	1.20	-3.78e-05	-8.36	-2.16e-05	4.07e-03	0.0
40	4	1.05	-3.45e-05	-8.42	-2.18e-05	3.56e-03	0.0
40	5	1.65	-5.39e-05	-9.90	-2.29e-05	5.56e-03	0.0
41	1	1.65	-6.09e-05	-9.90	-1.15e-05	5.56e-03	0.0
41	2	0.26	-2.79e-05	-10.22	-1.21e-05	8.73e-04	0.0
41	3	1.20	-4.44e-05	-8.37	-1.08e-05	4.07e-03	0.0
41	4	1.05	-4.10e-05	-8.42	-1.09e-05	3.56e-03	0.0
41	5	1.65	-6.10e-05	-9.90	-1.15e-05	5.56e-03	0.0
42	1	1.65	-6.23e-05	-9.59	-1.09e-05	5.57e-03	0.0
42	2	0.26	-2.83e-05	-10.17	-1.20e-05	8.85e-04	0.0
42	3	1.20	-4.54e-05	-8.14	-1.03e-05	4.08e-03	0.0
42	4	1.05	-4.20e-05	-8.22	-1.05e-05	3.57e-03	0.0
42	5	1.65	-6.24e-05	-9.59	-1.09e-05	5.57e-03	0.0
43	1	1.65	-6.81e-05	-9.90	0.0	5.56e-03	0.0
43	2	0.26	-3.47e-05	-10.22	0.0	8.73e-04	0.0
43	3	1.20	-5.09e-05	-8.37	0.0	4.07e-03	0.0
43	4	1.05	-4.75e-05	-8.42	0.0	3.56e-03	0.0
43	5	1.65	-6.81e-05	-9.90	0.0	5.56e-03	0.0
44	1	1.65	-7.00e-05	-9.59	0.0	5.57e-03	0.0
44	2	0.26	-3.53e-05	-10.17	0.0	8.85e-04	0.0
44	3	1.20	-5.23e-05	-8.14	0.0	4.08e-03	0.0
44	4	1.05	-4.87e-05	-8.22	0.0	3.57e-03	0.0
44	5	1.65	-7.00e-05	-9.59	0.0	5.57e-03	0.0
45	1	1.65	-7.52e-05	-9.90	1.16e-05	5.56e-03	0.0
45	2	0.26	-4.16e-05	-10.22	1.22e-05	8.73e-04	0.0
45	3	1.20	-5.75e-05	-8.37	1.08e-05	4.07e-03	0.0
45	4	1.05	-5.40e-05	-8.42	1.10e-05	3.56e-03	0.0
45	5	1.65	-7.53e-05	-9.90	1.16e-05	5.56e-03	0.0
46	1	1.65	-7.76e-05	-9.59	1.09e-05	5.57e-03	0.0
46	2	0.26	-4.22e-05	-10.17	1.21e-05	8.85e-04	0.0

46	3	1.20	-5.92e-05	-8.14	1.04e-05	4.08e-03	0.0
46	4	1.05	-5.55e-05	-8.22	1.05e-05	3.57e-03	0.0
46	5	1.65	-7.77e-05	-9.59	1.09e-05	5.57e-03	0.0
47	1	1.65	-8.24e-05	-9.90	2.30e-05	5.56e-03	0.0
47	2	0.26	-4.84e-05	-10.22	2.43e-05	8.73e-04	0.0
47	3	1.20	-6.40e-05	-8.36	2.16e-05	4.07e-03	0.0
47	4	1.05	-6.05e-05	-8.42	2.18e-05	3.56e-03	0.0
47	5	1.65	-8.24e-05	-9.90	2.30e-05	5.56e-03	0.0
48	1	1.65	-8.53e-05	-9.59	2.16e-05	5.57e-03	0.0
48	2	0.26	-4.91e-05	-10.17	2.40e-05	8.85e-04	0.0
48	3	1.20	-6.61e-05	-8.14	2.06e-05	4.08e-03	0.0
48	4	1.05	-6.22e-05	-8.22	2.09e-05	3.57e-03	0.0
48	5	1.65	-8.53e-05	-9.59	2.16e-05	5.58e-03	0.0
49	1	1.65	-5.29e-05	-10.21	-2.41e-05	5.55e-03	0.0
49	2	0.26	-2.08e-05	-10.27	-2.44e-05	8.61e-04	0.0
49	3	1.20	-3.71e-05	-8.59	-2.24e-05	4.06e-03	0.0
49	4	1.05	-3.37e-05	-8.62	-2.25e-05	3.55e-03	0.0
49	5	1.65	-5.29e-05	-10.21	-2.41e-05	5.55e-03	0.0
50	1	1.65	-5.95e-05	-10.21	-1.21e-05	5.54e-03	0.0
50	2	0.26	-2.75e-05	-10.27	-1.22e-05	8.60e-04	0.0
50	3	1.20	-4.33e-05	-8.59	-1.12e-05	4.06e-03	0.0
50	4	1.05	-3.99e-05	-8.62	-1.13e-05	3.55e-03	0.0
50	5	1.65	-5.96e-05	-10.21	-1.21e-05	5.55e-03	0.0
51	1	1.65	-6.62e-05	-10.21	0.0	5.54e-03	0.0
51	2	0.26	-3.42e-05	-10.27	0.0	8.60e-04	0.0
51	3	1.20	-4.95e-05	-8.59	0.0	4.06e-03	0.0
51	4	1.05	-4.62e-05	-8.62	0.0	3.55e-03	0.0
51	5	1.65	-6.62e-05	-10.21	0.0	5.55e-03	0.0
52	1	1.65	-7.28e-05	-10.21	1.21e-05	5.54e-03	0.0
52	2	0.26	-4.10e-05	-10.27	1.23e-05	8.60e-04	0.0
52	3	1.20	-5.57e-05	-8.59	1.13e-05	4.06e-03	0.0
52	4	1.05	-5.25e-05	-8.62	1.13e-05	3.55e-03	0.0
52	5	1.65	-7.29e-05	-10.21	1.21e-05	5.55e-03	0.0
53	1	1.65	-7.94e-05	-10.21	2.41e-05	5.55e-03	0.0
53	2	0.26	-4.77e-05	-10.27	2.45e-05	8.61e-04	0.0
53	3	1.20	-6.19e-05	-8.59	2.24e-05	4.06e-03	0.0
53	4	1.05	-5.87e-05	-8.62	2.26e-05	3.55e-03	0.0
53	5	1.65	-7.95e-05	-10.21	2.41e-05	5.55e-03	0.0
54	1	1.65	-5.20e-05	-10.52	-2.52e-05	5.54e-03	0.0
54	3	1.20	-3.63e-05	-8.82	-2.32e-05	4.05e-03	0.0
54	4	1.05	-3.29e-05	-8.82	-2.32e-05	3.54e-03	0.0
54	5	1.65	-5.20e-05	-10.52	-2.52e-05	5.54e-03	0.0
55	1	1.65	-5.81e-05	-10.52	-1.26e-05	5.53e-03	0.0
55	3	1.20	-4.22e-05	-8.82	-1.16e-05	4.05e-03	0.0
55	4	1.05	-3.89e-05	-8.82	-1.16e-05	3.54e-03	0.0
55	5	1.65	-5.82e-05	-10.52	-1.26e-05	5.54e-03	0.0
56	1	1.65	-6.43e-05	-10.52	0.0	5.53e-03	0.0
56	3	1.20	-4.81e-05	-8.82	0.0	4.05e-03	0.0
56	4	1.05	-4.49e-05	-8.82	0.0	3.54e-03	0.0
56	5	1.65	-6.43e-05	-10.52	0.0	5.53e-03	0.0
57	1	1.65	-7.04e-05	-10.52	1.26e-05	5.53e-03	0.0
57	3	1.20	-5.40e-05	-8.82	1.16e-05	4.05e-03	0.0
57	4	1.05	-5.09e-05	-8.82	1.17e-05	3.54e-03	0.0
57	5	1.65	-7.05e-05	-10.52	1.26e-05	5.54e-03	0.0
58	1	1.65	-7.65e-05	-10.52	2.53e-05	5.54e-03	0.0
58	3	1.20	-5.99e-05	-8.82	2.33e-05	4.05e-03	0.0
58	4	1.05	-5.70e-05	-8.82	2.33e-05	3.54e-03	0.0
58	5	1.65	-7.66e-05	-10.52	2.53e-05	5.54e-03	0.0
59	1	1.65	-5.11e-05	-10.83	-2.64e-05	5.52e-03	0.0
59	3	1.20	-3.55e-05	-9.05	-2.41e-05	4.04e-03	0.0
59	4	1.05	-3.21e-05	-9.01	-2.40e-05	3.53e-03	0.0
59	5	1.65	-5.11e-05	-10.83	-2.64e-05	5.53e-03	0.0
60	1	1.65	-5.67e-05	-10.83	-1.32e-05	5.52e-03	0.0
60	3	1.20	-4.11e-05	-9.05	-1.20e-05	4.04e-03	0.0
60	4	1.05	-3.79e-05	-9.01	-1.20e-05	3.53e-03	0.0
60	5	1.65	-5.68e-05	-10.83	-1.32e-05	5.52e-03	0.0
61	1	1.65	-6.24e-05	-10.83	0.0	5.52e-03	0.0
61	3	1.20	-4.67e-05	-9.05	0.0	4.04e-03	0.0
61	4	1.05	-4.37e-05	-9.02	0.0	3.53e-03	0.0
61	5	1.65	-6.24e-05	-10.83	0.0	5.52e-03	0.0
62	1	1.65	-6.80e-05	-10.83	1.32e-05	5.52e-03	0.0
62	3	1.20	-5.23e-05	-9.05	1.20e-05	4.04e-03	0.0
62	4	1.05	-4.94e-05	-9.01	1.20e-05	3.53e-03	0.0
62	5	1.65	-6.81e-05	-10.83	1.32e-05	5.52e-03	0.0
63	1	1.65	-7.36e-05	-10.83	2.65e-05	5.52e-03	0.0
63	3	1.20	-5.78e-05	-9.05	2.42e-05	4.04e-03	0.0
63	4	1.05	-5.52e-05	-9.01	2.41e-05	3.53e-03	0.0

63	5	1.65	-7.37e-05	-10.83	2.65e-05	5.53e-03	0.0
64	1	1.65	-5.95e-05	-11.30	0.0	5.51e-03	0.0
64	3	1.20	-4.46e-05	-9.39	0.0	4.02e-03	0.0
64	4	1.05	-4.18e-05	-9.31	0.0	3.51e-03	0.0
64	5	1.65	-5.96e-05	-11.30	0.0	5.51e-03	0.0
65	1	1.65	-6.73e-05	-11.25	2.15e-05	5.51e-03	0.0
65	3	1.20	-5.26e-05	-9.35	1.94e-05	4.02e-03	0.0
65	4	1.05	-5.02e-05	-9.28	1.91e-05	3.52e-03	0.0
65	5	1.65	-6.74e-05	-11.25	2.15e-05	5.51e-03	0.0
66	1	1.65	-5.66e-05	-11.76	0.0	5.50e-03	0.0
66	3	1.20	-4.24e-05	-9.72	0.0	4.01e-03	0.0
66	4	1.05	-3.99e-05	-9.61	0.0	3.50e-03	0.0
66	5	1.65	-5.67e-05	-11.76	0.0	5.50e-03	0.0
67	1	1.65	-6.62e-05	-11.67	3.19e-05	5.51e-03	0.0
67	3	1.20	-5.26e-05	-9.66	2.82e-05	4.02e-03	0.0
67	4	1.05	-5.08e-05	-9.55	2.76e-05	3.51e-03	0.0
67	5	1.65	-6.63e-05	-11.67	3.19e-05	5.51e-03	0.0
68	1	1.65	-5.38e-05	-12.22	0.0	5.53e-03	0.15
68	3	1.20	-4.03e-05	-10.06	0.0	4.03e-03	0.39
68	4	1.05	-3.80e-05	-9.90	0.0	3.52e-03	0.21
68	5	1.65	-5.38e-05	-12.22	0.0	5.53e-03	0.16
69	1	1.65	-6.18e-05	-12.08	4.39e-05	5.55e-03	0.15
69	3	1.20	-5.03e-05	-9.96	3.82e-05	4.05e-03	0.37
69	4	1.05	-4.96e-05	-9.81	3.70e-05	3.53e-03	0.20
69	5	1.65	-6.20e-05	-12.08	4.39e-05	5.55e-03	0.15
70	1	1.65	-3.82e-05	-12.49	5.05e-05	5.46e-03	0.0
70	3	1.20	-3.48e-05	-10.26	4.40e-05	3.97e-03	0.0
70	4	1.05	-3.75e-05	-10.07	4.28e-05	3.47e-03	0.0
70	5	1.65	-3.86e-05	-12.49	5.05e-05	5.46e-03	0.0
70	6	0.38	-4.59e-05	-10.66	3.76e-05	1.20e-03	0.0
71	1	1.65	-7.59e-05	-11.11	4.11e-05	5.52e-03	0.0
71	3	1.20	-6.09e-05	-9.25	3.70e-05	4.03e-03	0.0
71	4	1.05	-5.88e-05	-9.19	3.66e-05	3.52e-03	0.0
71	5	1.65	-7.60e-05	-11.11	4.11e-05	5.52e-03	0.0
72	1	1.65	-7.80e-05	-11.39	5.88e-05	5.53e-03	0.0
72	3	1.20	-6.39e-05	-9.46	5.21e-05	4.04e-03	0.0
72	4	1.05	-6.23e-05	-9.37	5.11e-05	3.52e-03	0.0
72	5	1.65	-7.81e-05	-11.39	5.88e-05	5.53e-03	0.0
73	1	1.65	-7.84e-05	-11.67	7.88e-05	5.58e-03	0.14
73	3	1.20	-6.60e-05	-9.66	6.89e-05	4.07e-03	0.36
73	4	1.05	-6.53e-05	-9.55	6.71e-05	3.55e-03	0.19
73	5	1.65	-7.86e-05	-11.67	7.88e-05	5.58e-03	0.15
74	1	1.65	-8.29e-05	-10.68	4.35e-05	5.54e-03	0.0
74	3	1.20	-6.65e-05	-8.93	3.98e-05	4.05e-03	0.0
74	4	1.05	-6.40e-05	-8.92	3.97e-05	3.54e-03	0.0
74	5	1.65	-8.30e-05	-10.68	4.35e-05	5.54e-03	0.0
75	1	1.65	-8.85e-05	-10.84	6.34e-05	5.55e-03	0.0
75	3	1.20	-7.26e-05	-9.05	5.76e-05	4.06e-03	0.0
75	4	1.05	-7.06e-05	-9.01	5.72e-05	3.55e-03	0.0
75	5	1.65	-8.87e-05	-10.84	6.34e-05	5.55e-03	0.0
76	1	1.65	-9.07e-05	-10.99	8.49e-05	5.62e-03	0.15
76	3	1.20	-7.62e-05	-9.16	7.65e-05	4.11e-03	0.37
76	4	1.05	-7.51e-05	-9.11	7.55e-05	3.59e-03	0.20
76	5	1.65	-9.09e-05	-10.99	8.49e-05	5.62e-03	0.15
77	1	1.65	-7.28e-05	-11.14	9.95e-05	5.53e-03	0.0
77	3	1.20	-6.60e-05	-9.27	9.01e-05	4.04e-03	0.0
77	4	1.05	-6.84e-05	-9.21	8.92e-05	3.53e-03	0.0
77	5	1.65	-7.32e-05	-11.14	9.95e-05	5.54e-03	0.0
77	6	0.38	-7.56e-05	-10.35	8.65e-05	1.26e-03	0.0
78	1	1.65	-8.94e-05	-10.21	4.19e-05	5.56e-03	0.0
78	2	0.26	-5.78e-05	-10.27	4.25e-05	8.62e-04	0.0
78	3	1.20	-7.13e-05	-8.59	3.90e-05	4.07e-03	0.0
78	4	1.05	-6.81e-05	-8.61	3.93e-05	3.56e-03	0.0
78	5	1.65	-8.95e-05	-10.21	4.19e-05	5.56e-03	0.0
79	1	1.65	-9.96e-05	-10.20	5.94e-05	5.58e-03	0.0
79	2	0.26	-6.81e-05	-10.26	6.02e-05	8.66e-04	0.0
79	3	1.20	-8.08e-05	-8.59	5.54e-05	4.08e-03	0.0
79	4	1.05	-7.77e-05	-8.61	5.57e-05	3.57e-03	0.0
79	5	1.65	-9.96e-05	-10.20	5.94e-05	5.58e-03	0.0
80	1	1.65	-1.11e-04	-10.20	7.64e-05	5.66e-03	0.15
80	2	0.26	-7.96e-05	-10.26	7.74e-05	8.78e-04	0.32
80	3	1.20	-9.14e-05	-8.58	7.14e-05	4.14e-03	0.39
80	4	1.05	-8.84e-05	-8.60	7.18e-05	3.62e-03	0.21
80	5	1.65	-1.11e-04	-10.20	7.64e-05	5.66e-03	0.16
81	1	1.65	-9.38e-05	-9.74	3.66e-05	5.57e-03	0.0
81	2	0.26	-5.79e-05	-10.19	4.00e-05	8.81e-04	0.0
81	3	1.20	-7.41e-05	-8.24	3.48e-05	4.08e-03	0.0

81	4	1.05	-7.03e-05	-8.31	3.53e-05	3.57e-03	0.0
81	5	1.65	-9.38e-05	-9.74	3.66e-05	5.58e-03	0.0
82	1	1.65	-1.06e-04	-9.57	4.75e-05	5.60e-03	0.0
82	2	0.26	-6.74e-05	-10.17	5.50e-05	8.90e-04	0.0
82	3	1.20	-8.43e-05	-8.12	4.59e-05	4.10e-03	0.0
82	4	1.05	-8.01e-05	-8.20	4.69e-05	3.59e-03	0.0
83	1	1.65	-1.19e-04	-9.41	5.55e-05	5.68e-03	0.15
83	2	0.26	-7.67e-05	-10.14	6.88e-05	9.07e-04	0.30
83	3	1.20	-9.58e-05	-8.00	5.49e-05	4.16e-03	0.37
83	4	1.05	-9.08e-05	-8.10	5.66e-05	3.65e-03	0.20
84	1	1.65	-1.54e-04	-9.24	6.77e-05	5.60e-03	0.0
84	2	0.26	-8.94e-05	-10.10	8.21e-05	8.99e-04	0.0
84	3	1.20	-1.21e-04	-7.88	6.67e-05	4.11e-03	0.0
84	4	1.05	-1.13e-04	-7.99	6.86e-05	3.60e-03	0.0
85	1	1.65	-9.52e-05	-9.30	2.84e-05	5.59e-03	0.0
85	2	0.26	-5.61e-05	-10.13	3.42e-05	8.97e-04	0.0
85	3	1.20	-7.45e-05	-7.92	2.77e-05	4.10e-03	0.0
85	4	1.05	-7.02e-05	-8.03	2.85e-05	3.59e-03	0.0
86	1	1.65	-1.06e-04	-9.01	3.15e-05	5.62e-03	0.0
86	2	0.26	-6.34e-05	-10.08	4.37e-05	9.10e-04	0.0
86	3	1.20	-8.35e-05	-7.71	3.21e-05	4.12e-03	0.0
86	4	1.05	-7.87e-05	-7.85	3.36e-05	3.61e-03	0.0
87	1	1.65	-1.20e-04	-8.72	3.17e-05	5.69e-03	0.14
87	2	0.26	-7.21e-05	-10.03	5.24e-05	9.30e-04	0.29
87	3	1.20	-9.50e-05	-7.50	3.44e-05	4.17e-03	0.36
87	4	1.05	-8.94e-05	-7.66	3.69e-05	3.66e-03	0.19
88	1	1.65	-8.51e-05	-9.17	1.47e-05	5.59e-03	0.0
88	2	0.26	-4.66e-05	-10.11	1.78e-05	9.02e-04	0.0
88	3	1.20	-6.53e-05	-7.83	1.43e-05	4.10e-03	0.0
88	4	1.05	-6.12e-05	-7.95	1.48e-05	3.59e-03	0.0
88	5	1.65	-8.52e-05	-9.17	1.47e-05	5.59e-03	0.0
89	1	1.65	-9.30e-05	-8.74	1.59e-05	5.62e-03	0.0
89	2	0.26	-5.10e-05	-10.04	2.30e-05	9.19e-04	0.0
89	3	1.20	-7.16e-05	-7.52	1.65e-05	4.12e-03	0.0
89	4	1.05	-6.69e-05	-7.67	1.73e-05	3.61e-03	0.0
90	1	1.65	-1.03e-04	-8.32	1.48e-05	5.69e-03	0.15
90	2	0.26	-5.56e-05	-9.97	2.76e-05	9.43e-04	0.30
90	3	1.20	-7.95e-05	-7.20	1.68e-05	4.18e-03	0.37
90	4	1.05	-7.38e-05	-7.40	1.83e-05	3.66e-03	0.20
91	1	1.65	-1.34e-04	-7.89	1.79e-05	5.62e-03	0.0
91	2	0.26	-6.36e-05	-9.89	3.23e-05	9.44e-04	0.0
91	3	1.20	-1.01e-04	-6.89	2.02e-05	4.13e-03	0.0
91	4	1.05	-9.21e-05	-7.12	2.18e-05	3.62e-03	0.0
92	1	1.65	-7.28e-05	-9.12	0.0	5.59e-03	0.0
92	2	0.26	-3.60e-05	-10.10	0.0	9.03e-04	0.0
92	3	1.20	-5.44e-05	-7.79	0.0	4.10e-03	0.0
92	4	1.05	-5.06e-05	-7.92	0.0	3.59e-03	0.0
92	5	1.65	-7.29e-05	-9.12	0.0	5.59e-03	0.0
93	1	1.65	-7.57e-05	-8.65	0.0	5.61e-03	0.0
93	2	0.26	-3.68e-05	-10.02	0.0	9.22e-04	0.0
93	3	1.20	-5.66e-05	-7.45	0.0	4.12e-03	0.0
93	4	1.05	-5.25e-05	-7.61	0.0	3.61e-03	0.0
93	5	1.65	-7.58e-05	-8.65	0.0	5.62e-03	0.0
94	1	1.65	-7.86e-05	-8.17	0.0	5.69e-03	0.15
94	2	0.26	-3.76e-05	-9.94	0.0	9.48e-04	0.32
94	3	1.20	-5.87e-05	-7.10	0.0	4.18e-03	0.39
94	4	1.05	-5.44e-05	-7.31	0.0	3.66e-03	0.21
94	5	1.65	-7.86e-05	-8.17	0.0	5.69e-03	0.16
95	1	1.65	-6.00e-05	-9.17	-1.47e-05	5.59e-03	0.0
95	2	0.26	-2.53e-05	-10.11	-1.77e-05	9.02e-04	0.0
95	3	1.20	-4.32e-05	-7.83	-1.43e-05	4.10e-03	0.0
95	4	1.05	-3.97e-05	-7.95	-1.47e-05	3.59e-03	0.0
95	5	1.65	-6.01e-05	-9.17	-1.47e-05	5.59e-03	0.0
96	1	1.65	-5.73e-05	-8.74	-1.59e-05	5.62e-03	0.0
96	2	0.26	-2.23e-05	-10.04	-2.29e-05	9.19e-04	0.0
96	3	1.20	-4.07e-05	-7.52	-1.64e-05	4.12e-03	0.0
96	4	1.05	-3.74e-05	-7.67	-1.73e-05	3.61e-03	0.0
96	5	1.65	-5.74e-05	-8.74	-1.59e-05	5.62e-03	0.0
97	1	1.65	-5.19e-05	-8.32	-1.48e-05	5.69e-03	0.15
97	2	0.26	-1.90e-05	-9.97	-2.75e-05	9.43e-04	0.30
97	3	1.20	-3.65e-05	-7.20	-1.68e-05	4.18e-03	0.37
97	4	1.05	-3.38e-05	-7.40	-1.83e-05	3.66e-03	0.20
97	5	1.65	-5.21e-05	-8.32	-1.48e-05	5.69e-03	0.15
98	1	1.65	-2.69e-05	-7.89	-1.85e-05	5.62e-03	0.0
98	2	0.26	-1.25e-05	-9.89	-3.23e-05	9.44e-04	0.0
98	3	1.20	-1.87e-05	-6.89	-2.06e-05	4.13e-03	0.0
98	4	1.05	-1.90e-05	-7.12	-2.22e-05	3.62e-03	0.0

98	5	1.65	-2.73e-05	-7.89	-1.85e-05	5.62e-03	0.0
99	1	1.65	-4.83e-05	-9.30	-2.84e-05	5.59e-03	0.0
99	2	0.26	-1.54e-05	-10.13	-3.41e-05	8.97e-04	0.0
99	3	1.20	-3.28e-05	-7.92	-2.77e-05	4.10e-03	0.0
99	4	1.05	-2.96e-05	-8.03	-2.84e-05	3.59e-03	0.0
99	5	1.65	-4.84e-05	-9.30	-2.84e-05	5.59e-03	0.0
100	1	1.65	-4.11e-05	-9.01	-3.15e-05	5.62e-03	0.0
100	2	0.26	-8.96e-06	-10.08	-4.36e-05	9.10e-04	0.0
100	3	1.20	-2.64e-05	-7.71	-3.21e-05	4.12e-03	0.0
100	4	1.05	-2.35e-05	-7.85	-3.36e-05	3.61e-03	0.0
100	5	1.65	-4.12e-05	-9.01	-3.15e-05	5.62e-03	0.0
101	1	1.65	-3.06e-05	-8.72	-3.18e-05	5.69e-03	0.14
101	2	0.26	-1.27e-06	-10.03	-5.23e-05	9.30e-04	0.29
101	3	1.20	-1.76e-05	-7.50	-3.44e-05	4.17e-03	0.36
101	4	1.05	-1.52e-05	-7.66	-3.69e-05	3.66e-03	0.19
101	5	1.65	-3.08e-05	-8.72	-3.18e-05	5.69e-03	0.15
102	1	1.65	-4.43e-05	-9.74	-3.66e-05	5.57e-03	0.0
102	2	0.26	-1.21e-05	-10.19	-3.99e-05	8.81e-04	0.0
102	3	1.20	-2.92e-05	-8.24	-3.47e-05	4.08e-03	0.0
102	4	1.05	-2.60e-05	-8.31	-3.53e-05	3.57e-03	0.0
102	5	1.65	-4.44e-05	-9.74	-3.66e-05	5.58e-03	0.0
103	1	1.65	-3.44e-05	-9.57	-4.75e-05	5.60e-03	0.0
103	2	0.26	-3.12e-06	-10.17	-5.49e-05	8.90e-04	0.0
103	3	1.20	-2.04e-05	-8.12	-4.59e-05	4.10e-03	0.0
103	4	1.05	-1.74e-05	-8.20	-4.69e-05	3.59e-03	0.0
103	5	1.65	-3.46e-05	-9.57	-4.75e-05	5.60e-03	0.0
104	1	1.65	-2.24e-05	-9.41	-5.57e-05	5.68e-03	0.15
104	2	0.26	5.65e-06	-10.14	-6.89e-05	9.07e-04	0.30
104	3	1.20	-1.03e-05	-8.00	-5.50e-05	4.16e-03	0.37
104	4	1.05	-7.98e-06	-8.10	-5.67e-05	3.64e-03	0.20
104	5	1.65	-2.26e-05	-9.41	-5.56e-05	5.68e-03	0.15
105	1	1.65	1.03e-05	-9.24	-6.85e-05	5.60e-03	0.0
105	2	0.26	1.81e-05	-10.10	-8.26e-05	8.99e-04	0.0
105	3	1.20	1.43e-05	-7.88	-6.74e-05	4.11e-03	0.0
105	4	1.05	1.33e-05	-7.99	-6.93e-05	3.60e-03	0.0
106	1	1.65	-4.29e-05	-10.21	-4.19e-05	5.56e-03	0.0
106	2	0.26	-1.06e-05	-10.27	-4.24e-05	8.62e-04	0.0
106	3	1.20	-2.77e-05	-8.59	-3.90e-05	4.07e-03	0.0
106	4	1.05	-2.43e-05	-8.61	-3.92e-05	3.56e-03	0.0
106	5	1.65	-4.30e-05	-10.21	-4.19e-05	5.56e-03	0.0
107	1	1.65	-3.27e-05	-10.20	-5.93e-05	5.58e-03	0.0
107	2	0.26	0.0	-10.26	-6.00e-05	8.66e-04	0.0
107	3	1.20	-1.81e-05	-8.59	-5.53e-05	4.08e-03	0.0
107	4	1.05	-1.46e-05	-8.61	-5.56e-05	3.57e-03	0.0
107	5	1.65	-3.27e-05	-10.20	-5.93e-05	5.58e-03	0.0
108	1	1.65	-2.13e-05	-10.20	-7.63e-05	5.65e-03	0.15
108	2	0.26	1.12e-05	-10.26	-7.72e-05	8.77e-04	0.32
108	3	1.20	-7.45e-06	-8.58	-7.13e-05	4.14e-03	0.39
108	4	1.05	-3.90e-06	-8.60	-7.17e-05	3.62e-03	0.21
108	5	1.65	-2.14e-05	-10.20	-7.63e-05	5.66e-03	0.16
109	1	1.65	-4.36e-05	-10.68	-4.34e-05	5.54e-03	0.0
109	3	1.20	-2.82e-05	-8.93	-3.97e-05	4.05e-03	0.0
109	4	1.05	-2.46e-05	-8.92	-3.96e-05	3.54e-03	0.0
109	5	1.65	-4.36e-05	-10.68	-4.34e-05	5.54e-03	0.0
110	1	1.65	-3.60e-05	-10.84	-6.34e-05	5.55e-03	0.0
110	3	1.20	-2.07e-05	-9.05	-5.75e-05	4.06e-03	0.0
110	4	1.05	-1.67e-05	-9.01	-5.71e-05	3.55e-03	0.0
110	5	1.65	-3.60e-05	-10.84	-6.34e-05	5.55e-03	0.0
111	1	1.65	-3.18e-05	-10.99	-8.48e-05	5.62e-03	0.15
111	3	1.20	-1.55e-05	-9.16	-7.64e-05	4.11e-03	0.37
111	4	1.05	-1.08e-05	-9.11	-7.55e-05	3.59e-03	0.20
111	5	1.65	-3.17e-05	-10.99	-8.48e-05	5.62e-03	0.15
112	1	1.65	-4.72e-05	-11.14	-9.92e-05	5.53e-03	0.0
112	3	1.20	-2.38e-05	-9.27	-9.00e-05	4.04e-03	0.0
112	4	1.05	-1.58e-05	-9.21	-8.91e-05	3.53e-03	0.0
112	5	1.65	-4.68e-05	-11.14	-9.93e-05	5.53e-03	0.0
113	1	1.65	-4.53e-05	-11.11	-4.10e-05	5.52e-03	0.0
113	3	1.20	-2.99e-05	-9.25	-3.69e-05	4.03e-03	0.0
113	4	1.05	-2.62e-05	-9.19	-3.66e-05	3.52e-03	0.0
113	5	1.65	-4.53e-05	-11.11	-4.10e-05	5.52e-03	0.0
114	1	1.65	-3.98e-05	-11.39	-5.87e-05	5.53e-03	0.0
114	3	1.20	-2.44e-05	-9.46	-5.20e-05	4.04e-03	0.0
114	4	1.05	-2.04e-05	-9.37	-5.10e-05	3.52e-03	0.0
114	5	1.65	-3.98e-05	-11.39	-5.87e-05	5.53e-03	0.0
115	1	1.65	-3.59e-05	-11.67	-7.86e-05	5.58e-03	0.14
115	3	1.20	-1.97e-05	-9.66	-6.88e-05	4.07e-03	0.36
115	4	1.05	-1.51e-05	-9.55	-6.69e-05	3.55e-03	0.19

115	5	1.65	-3.58e-05	-11.67	-7.86e-05	5.58e-03	0.15
116	1	1.65	-5.23e-05	-11.25	-2.15e-05	5.51e-03	0.0
116	3	1.20	-3.70e-05	-9.35	-1.93e-05	4.02e-03	0.0
116	4	1.05	-3.37e-05	-9.28	-1.91e-05	3.52e-03	0.0
116	5	1.65	-5.23e-05	-11.25	-2.15e-05	5.51e-03	0.0
117	1	1.65	-4.83e-05	-11.67	-3.18e-05	5.51e-03	0.0
117	3	1.20	-3.32e-05	-9.66	-2.81e-05	4.02e-03	0.0
117	4	1.05	-2.97e-05	-9.55	-2.75e-05	3.51e-03	0.0
117	5	1.65	-4.83e-05	-11.67	-3.18e-05	5.51e-03	0.0
118	1	1.65	-4.75e-05	-12.08	-4.39e-05	5.55e-03	0.15
118	3	1.20	-3.16e-05	-9.96	-3.81e-05	4.05e-03	0.37
118	4	1.05	-2.76e-05	-9.81	-3.70e-05	3.53e-03	0.20
118	5	1.65	-4.74e-05	-12.08	-4.39e-05	5.55e-03	0.15
119	1	1.65	-6.59e-05	-12.49	-5.10e-05	5.46e-03	0.0
119	3	1.20	-4.33e-05	-10.26	-4.44e-05	3.98e-03	0.0
119	4	1.05	-3.62e-05	-10.07	-4.31e-05	3.47e-03	0.0
119	5	1.65	-6.56e-05	-12.49	-5.10e-05	5.46e-03	0.0
120	1	1.65	-1.56e-04	-14.84	-2.81e-04	5.02e-03	0.0
120	3	1.20	-8.65e-05	-11.94	-2.40e-04	3.64e-03	0.0
120	4	1.05	-5.65e-05	-11.52	-2.30e-04	3.16e-03	0.0
120	5	1.65	-1.54e-04	-14.85	-2.81e-04	5.02e-03	0.0
121	1	1.65	-6.58e-06	-16.85	1.14e-06	4.83e-03	0.0
121	2	0.26	-1.66e-05	-11.12	1.37e-06	5.50e-04	0.0
121	3	1.20	-5.02e-06	-13.41	1.02e-06	3.49e-03	0.0
121	4	1.05	-6.38e-06	-12.80	1.04e-06	3.02e-03	0.0
121	5	1.65	-6.64e-06	-16.86	1.13e-06	4.84e-03	0.0
122	1	1.65	-2.46e-06	-16.72	8.66e-05	4.84e-03	0.0
122	2	0.26	-4.76e-05	-11.09	4.92e-05	5.55e-04	0.0
122	3	1.20	-1.28e-05	-13.31	7.24e-05	3.50e-03	0.0
122	4	1.05	-2.10e-05	-12.72	6.86e-05	3.03e-03	0.0
122	5	1.65	-3.12e-06	-16.72	8.66e-05	4.84e-03	0.0
123	1	1.65	-2.23e-05	-3.27	3.33e-06	5.30e-03	0.0
123	2	0.26	-2.75e-06	-9.01	-3.53e-05	1.02e-03	0.0
123	3	1.20	-1.44e-05	-3.47	-6.39e-06	3.93e-03	0.0
123	4	1.05	-1.56e-05	-4.11	-1.07e-05	3.46e-03	0.0
123	7	1.36	-2.53e-05	-2.80	-1.80e-06	4.44e-03	0.0
124	1	1.65	8.35e-05	-16.33	1.73e-04	4.88e-03	0.0
124	3	1.20	4.38e-05	-13.03	1.45e-04	3.53e-03	0.0
124	4	1.05	2.27e-05	-12.47	1.39e-04	3.06e-03	0.0
124	5	1.65	8.20e-05	-16.33	1.73e-04	4.88e-03	0.0
125	1	1.65	-1.14e-05	-11.33	-2.69e-04	5.24e-03	0.0
125	2	0.26	8.16e-05	-10.26	-2.37e-04	7.72e-04	0.0
125	3	1.20	2.05e-05	-9.37	-2.44e-04	3.82e-03	0.0
125	4	1.05	3.49e-05	-9.27	-2.41e-04	3.34e-03	0.0
125	5	1.65	-1.06e-05	-11.33	-2.69e-04	5.24e-03	0.0
126	1	1.65	6.76e-05	-15.70	2.32e-04	4.94e-03	0.0
126	2	0.26	-7.23e-05	-10.94	1.45e-04	5.99e-04	0.0
126	3	1.20	2.37e-05	-12.56	1.96e-04	3.58e-03	0.0
126	4	1.05	0.0	-12.06	1.88e-04	3.10e-03	0.0
126	5	1.65	6.58e-05	-15.70	2.32e-04	4.94e-03	0.0
127	1	1.65	8.84e-05	-3.66	-1.00e-05	5.31e-03	0.0
127	2	0.26	2.40e-05	-9.07	-8.01e-05	1.01e-03	0.0
127	3	1.20	6.44e-05	-3.75	-2.58e-05	3.93e-03	0.0
127	4	1.05	5.00e-05	-4.36	-3.36e-05	3.46e-03	0.0
128	1	1.65	6.48e-05	-14.84	2.83e-04	5.01e-03	0.0
128	2	0.26	-8.80e-05	-10.80	1.87e-04	6.38e-04	0.0
128	3	1.20	1.73e-05	-11.94	2.42e-04	3.63e-03	0.0
128	4	1.05	-9.41e-06	-11.51	2.32e-04	3.16e-03	0.0
128	5	1.65	6.28e-05	-14.85	2.84e-04	5.02e-03	0.0
129	1	1.65	-1.23e-04	-16.33	-1.70e-04	4.88e-03	0.0
129	3	1.20	-7.37e-05	-13.03	-1.43e-04	3.53e-03	0.0
129	4	1.05	-5.32e-05	-12.47	-1.36e-04	3.06e-03	0.0
129	5	1.65	-1.22e-04	-16.33	-1.70e-04	4.89e-03	0.0
130	1	1.65	4.16e-05	-13.81	2.98e-04	5.10e-03	0.0
130	2	0.26	-1.02e-04	-10.64	2.12e-04	6.79e-04	0.0
130	3	1.20	-1.47e-06	-11.18	2.58e-04	3.70e-03	0.0
130	4	1.05	-2.67e-05	-10.85	2.50e-04	3.22e-03	0.0
130	5	1.65	3.97e-05	-13.81	2.98e-04	5.10e-03	0.0
131	1	1.65	1.45e-04	-4.29	-2.17e-05	5.33e-03	0.0
131	2	0.26	6.12e-05	-9.17	-1.12e-04	9.96e-04	0.0
131	3	1.20	1.11e-04	-4.21	-4.20e-05	3.94e-03	0.0
131	4	1.05	9.28e-05	-4.76	-5.22e-05	3.47e-03	0.0
132	1	1.65	-5.04e-05	-12.62	2.98e-04	5.17e-03	0.0
132	2	0.26	-1.40e-04	-10.46	2.31e-04	7.26e-04	0.0
132	3	1.20	-7.16e-05	-10.31	2.62e-04	3.76e-03	0.0
132	4	1.05	-8.87e-05	-10.09	2.56e-04	3.28e-03	0.0
132	5	1.65	-5.18e-05	-12.62	2.98e-04	5.17e-03	0.0

133	1	1.65	-1.00e-04	-11.33	2.74e-04	5.24e-03	0.0
133	2	0.26	-1.41e-04	-10.26	2.39e-04	7.76e-04	0.0
133	3	1.20	-1.03e-04	-9.37	2.47e-04	3.83e-03	0.0
133	4	1.05	-1.12e-04	-9.27	2.45e-04	3.34e-03	0.0
133	5	1.65	-1.01e-04	-11.33	2.74e-04	5.25e-03	0.0
134	1	1.65	-6.56e-05	-12.62	-3.00e-04	5.17e-03	0.0
134	2	0.26	6.76e-05	-10.46	-2.32e-04	7.29e-04	0.0
134	3	1.20	-1.76e-05	-10.31	-2.64e-04	3.77e-03	0.0
134	4	1.05	3.92e-06	-10.09	-2.58e-04	3.28e-03	0.0
134	5	1.65	-6.43e-05	-12.62	-3.00e-04	5.18e-03	0.0
135	1	1.65	-2.00e-04	-9.99	2.30e-04	5.29e-03	0.0
135	2	0.26	-1.73e-04	-10.05	2.36e-04	8.18e-04	0.0
135	3	1.20	-1.75e-04	-8.39	2.16e-04	3.87e-03	0.0
135	4	1.05	-1.73e-04	-8.41	2.18e-04	3.38e-03	0.0
135	5	1.65	-2.00e-04	-9.99	2.30e-04	5.29e-03	0.0
136	1	1.65	1.88e-04	-5.14	-4.95e-05	5.34e-03	0.0
136	2	0.26	8.35e-05	-9.30	-1.51e-04	9.69e-04	0.0
136	3	1.20	1.45e-04	-4.84	-7.00e-05	3.94e-03	0.0
136	4	1.05	1.24e-04	-5.31	-8.14e-05	3.47e-03	0.0
137	1	1.65	-2.79e-04	-8.66	1.86e-04	5.34e-03	0.0
137	2	0.26	-1.77e-04	-9.84	2.24e-04	8.69e-04	0.0
137	3	1.20	-2.27e-04	-7.41	1.83e-04	3.91e-03	0.0
137	4	1.05	-2.12e-04	-7.55	1.88e-04	3.43e-03	0.0
138	1	1.65	-1.15e-04	-15.70	-2.35e-04	4.94e-03	0.0
138	3	1.20	-5.91e-05	-12.56	-1.99e-04	3.57e-03	0.0
138	4	1.05	-3.45e-05	-12.06	-1.90e-04	3.10e-03	0.0
138	5	1.65	-1.13e-04	-15.70	-2.35e-04	4.94e-03	0.0
139	1	1.65	-3.36e-04	-7.37	1.32e-04	5.35e-03	0.0
139	2	0.26	-1.81e-04	-9.64	2.06e-04	9.04e-04	0.0
139	3	1.20	-2.64e-04	-6.47	1.40e-04	3.93e-03	0.0
139	4	1.05	-2.41e-04	-6.73	1.49e-04	3.45e-03	0.0
140	1	1.65	1.99e-04	-6.18	-8.87e-05	5.36e-03	0.0
140	2	0.26	9.50e-05	-9.46	-1.80e-04	9.44e-04	0.0
140	3	1.20	1.56e-04	-5.60	-1.05e-04	3.95e-03	0.0
140	4	1.05	1.36e-04	-5.97	-1.15e-04	3.47e-03	0.0
141	1	1.65	-3.78e-04	-6.18	8.61e-05	5.36e-03	0.0
141	2	0.26	-1.86e-04	-9.46	1.78e-04	9.46e-04	0.0
141	3	1.20	-2.92e-04	-5.60	1.02e-04	3.95e-03	0.0
141	4	1.05	-2.63e-04	-5.97	1.13e-04	3.47e-03	0.0
142	1	1.65	-9.91e-05	-13.80	-2.97e-04	5.09e-03	0.0
142	3	1.20	-4.03e-05	-11.18	-2.57e-04	3.70e-03	0.0
142	4	1.05	-1.38e-05	-10.85	-2.49e-04	3.22e-03	0.0
142	5	1.65	-9.73e-05	-13.81	-2.97e-04	5.09e-03	0.0
143	1	1.65	-3.88e-04	-5.14	5.12e-05	5.35e-03	0.0
143	2	0.26	-1.63e-04	-9.30	1.51e-04	9.71e-04	0.0
143	3	1.20	-2.92e-04	-4.84	7.14e-05	3.94e-03	0.0
143	4	1.05	-2.58e-04	-5.31	8.26e-05	3.47e-03	0.0
144	1	1.65	1.76e-04	-7.37	-1.33e-04	5.35e-03	0.0
144	2	0.26	1.14e-04	-9.64	-2.05e-04	9.06e-04	0.0
144	3	1.20	1.47e-04	-6.47	-1.41e-04	3.93e-03	0.0
144	4	1.05	1.34e-04	-6.73	-1.50e-04	3.45e-03	0.0
145	1	1.65	-3.48e-04	-4.29	2.18e-05	5.33e-03	0.0
145	2	0.26	-1.53e-04	-9.16	1.14e-04	9.94e-04	0.0
145	3	1.20	-2.63e-04	-4.21	4.22e-05	3.94e-03	0.0
145	4	1.05	-2.34e-04	-4.76	5.25e-05	3.47e-03	0.0
146	1	1.65	1.22e-04	-8.66	-1.85e-04	5.33e-03	0.0
146	2	0.26	9.76e-05	-9.84	-2.25e-04	8.66e-04	0.0
146	3	1.20	1.09e-04	-7.41	-1.82e-04	3.91e-03	0.0
146	4	1.05	1.03e-04	-7.56	-1.88e-04	3.43e-03	0.0
147	1	1.65	-2.98e-04	-3.66	9.53e-06	5.32e-03	0.0
147	2	0.26	-1.16e-04	-9.07	7.87e-05	1.01e-03	0.0
147	3	1.20	-2.21e-04	-3.75	2.52e-05	3.94e-03	0.0
147	4	1.05	-1.95e-04	-4.35	3.29e-05	3.47e-03	0.0
148	1	1.65	-7.53e-05	-16.72	-9.09e-05	4.84e-03	0.0
148	3	1.20	-4.67e-05	-13.31	-7.61e-05	3.49e-03	0.0
148	4	1.05	-3.58e-05	-12.72	-7.24e-05	3.03e-03	0.0
148	5	1.65	-7.45e-05	-16.72	-9.09e-05	4.84e-03	0.0
149	1	1.65	-2.12e-04	-3.27	3.71e-06	5.30e-03	0.0
149	2	0.26	-8.32e-05	-9.01	4.12e-05	1.02e-03	0.0
149	3	1.20	-1.57e-04	-3.47	1.21e-05	3.92e-03	0.0
149	4	1.05	-1.40e-04	-4.11	1.63e-05	3.46e-03	0.0
150	1	1.65	7.48e-05	-9.99	-2.35e-04	5.29e-03	0.0
150	2	0.26	1.05e-04	-10.05	-2.36e-04	8.24e-04	0.0
150	3	1.20	8.16e-05	-8.39	-2.20e-04	3.87e-03	0.0
150	4	1.05	8.51e-05	-8.41	-2.21e-04	3.39e-03	0.0
151	1	1.65	-1.03e-04	-3.13	-1.69e-06	5.30e-03	0.0
151	2	0.26	-4.83e-05	-8.99	-1.44e-06	1.02e-03	0.0

151	3	1.20	-7.80e-05	-3.37	-1.44e-06	3.93e-03	0.0
151	4	1.05	-7.27e-05	-4.02	-1.42e-06	3.46e-03	0.0
151	5	1.65	-1.03e-04	-3.13	-1.69e-06	5.30e-03	0.0
152	1	1.65	3.30e-05	-9.87	-1.79e-04	5.47e-03	0.0
152	2	0.26	5.37e-05	-10.17	-1.96e-04	8.63e-04	0.0
152	3	1.20	3.96e-05	-8.33	-1.72e-04	4.01e-03	0.0
152	4	1.05	4.13e-05	-8.38	-1.74e-04	3.51e-03	0.0
153	1	1.65	8.25e-05	-9.65	-2.26e-04	5.35e-03	0.0
153	2	0.26	9.66e-05	-10.06	-2.46e-04	8.48e-04	0.0
153	3	1.20	8.36e-05	-8.15	-2.16e-04	3.92e-03	0.0
153	4	1.05	8.42e-05	-8.22	-2.19e-04	3.43e-03	0.0
154	1	1.65	9.74e-05	-9.33	-2.06e-04	5.31e-03	0.0
154	2	0.26	1.08e-04	-9.95	-2.31e-04	8.42e-04	0.0
154	3	1.20	9.65e-05	-7.90	-1.98e-04	3.89e-03	0.0
154	4	1.05	9.65e-05	-7.98	-2.02e-04	3.41e-03	0.0
155	1	1.65	1.58e-04	-8.01	-1.62e-04	5.35e-03	0.0
155	2	0.26	1.07e-04	-9.74	-2.17e-04	8.91e-04	0.0
155	3	1.20	1.34e-04	-6.94	-1.64e-04	3.93e-03	0.0
155	4	1.05	1.23e-04	-7.14	-1.71e-04	3.44e-03	0.0
156	1	1.65	1.87e-04	-6.78	-1.10e-04	5.35e-03	0.0
156	2	0.26	9.96e-05	-9.55	-1.95e-04	9.23e-04	0.0
156	3	1.20	1.49e-04	-6.03	-1.23e-04	3.94e-03	0.0
156	4	1.05	1.32e-04	-6.35	-1.32e-04	3.46e-03	0.0
157	1	1.65	1.94e-04	-5.66	-6.65e-05	5.35e-03	0.0
157	2	0.26	9.77e-05	-9.38	-1.64e-04	9.59e-04	0.0
157	3	1.20	1.53e-04	-5.22	-8.54e-05	3.95e-03	0.0
157	4	1.05	1.33e-04	-5.64	-9.64e-05	3.47e-03	0.0
158	1	1.65	1.78e-04	-4.72	-3.74e-05	5.34e-03	0.0
158	2	0.26	6.68e-05	-9.23	-1.34e-04	9.83e-04	0.0
158	3	1.20	1.34e-04	-4.53	-5.78e-05	3.94e-03	0.0
158	4	1.05	1.12e-04	-5.03	-6.87e-05	3.47e-03	0.0
159	1	1.65	1.10e-04	-3.97	-1.18e-05	5.32e-03	0.0
159	2	0.26	4.97e-05	-9.12	-9.51e-05	1.00e-03	0.0
159	3	1.20	8.52e-05	-3.98	-3.09e-05	3.93e-03	0.0
159	4	1.05	7.08e-05	-4.56	-4.02e-05	3.46e-03	0.0
160	1	1.65	3.94e-05	-3.46	-3.98e-06	5.31e-03	0.0
160	2	0.26	9.70e-06	-9.04	-5.82e-05	1.02e-03	0.0
160	3	1.20	2.90e-05	-3.61	-1.67e-05	3.93e-03	0.0
160	4	1.05	2.01e-05	-4.23	-2.27e-05	3.47e-03	0.0
161	1	1.65	-5.32e-05	-3.20	-2.19e-06	5.29e-03	0.0
161	2	0.26	-2.83e-05	-9.00	-2.11e-05	1.02e-03	0.0
161	3	1.20	-4.07e-05	-3.42	-6.45e-06	3.92e-03	0.0
161	4	1.05	-4.04e-05	-4.06	-8.56e-06	3.46e-03	0.0
161	5	1.65	-5.38e-05	-3.20	-2.18e-06	5.30e-03	0.0
162	1	1.65	-1.69e-04	-3.20	3.63e-06	5.30e-03	0.0
162	2	0.26	-6.20e-05	-9.00	2.28e-05	1.02e-03	0.0
162	3	1.20	-1.24e-04	-3.42	7.63e-06	3.93e-03	0.0
162	4	1.05	-1.11e-04	-4.06	9.77e-06	3.46e-03	0.0
163	1	1.65	-2.43e-04	-3.46	0.0	5.31e-03	0.0
163	2	0.26	-1.07e-04	-9.04	5.59e-05	1.02e-03	0.0
163	3	1.20	-1.83e-04	-3.61	1.37e-05	3.93e-03	0.0
163	4	1.05	-1.64e-04	-4.23	1.99e-05	3.46e-03	0.0
164	1	1.65	-3.34e-04	-3.97	1.71e-05	5.32e-03	0.0
164	2	0.26	-1.30e-04	-9.12	1.00e-04	1.00e-03	0.0
164	3	1.20	-2.49e-04	-3.98	3.54e-05	3.93e-03	0.0
164	4	1.05	-2.19e-04	-4.56	4.47e-05	3.47e-03	0.0
165	1	1.65	-3.73e-04	-4.72	3.51e-05	5.34e-03	0.0
165	2	0.26	-1.60e-04	-9.23	1.31e-04	9.87e-04	0.0
165	3	1.20	-2.81e-04	-4.53	5.58e-05	3.95e-03	0.0
165	4	1.05	-2.49e-04	-5.03	6.66e-05	3.47e-03	0.0
166	1	1.65	-3.83e-04	-5.66	6.71e-05	5.34e-03	0.0
166	2	0.26	-1.79e-04	-9.38	1.66e-04	9.56e-04	0.0
166	3	1.20	-2.93e-04	-5.22	8.61e-05	3.94e-03	0.0
166	4	1.05	-2.62e-04	-5.64	9.74e-05	3.46e-03	0.0
167	1	1.65	-3.64e-04	-6.78	1.12e-04	5.36e-03	0.0
167	2	0.26	-1.77e-04	-9.55	1.94e-04	9.27e-04	0.0
167	3	1.20	-2.81e-04	-6.03	1.24e-04	3.94e-03	0.0
167	4	1.05	-2.53e-04	-6.35	1.34e-04	3.46e-03	0.0
168	1	1.65	-3.16e-04	-8.01	1.59e-04	5.34e-03	0.0
168	2	0.26	-1.93e-04	-9.74	2.16e-04	8.88e-04	0.0
168	3	1.20	-2.55e-04	-6.94	1.62e-04	3.92e-03	0.0
168	4	1.05	-2.37e-04	-7.14	1.69e-04	3.44e-03	0.0
169	1	1.65	-2.29e-04	-9.33	2.09e-04	5.31e-03	0.0
169	2	0.26	-1.65e-04	-9.95	2.32e-04	8.43e-04	0.0
169	3	1.20	-1.92e-04	-7.90	2.01e-04	3.89e-03	0.0
169	4	1.05	-1.84e-04	-7.98	2.04e-04	3.41e-03	0.0
170	1	1.65	-1.63e-04	-10.49	2.67e-04	5.31e-03	0.0



170	3	1.20	-1.48e-04	-8.77	2.46e-04	3.88e-03	0.0
170	4	1.05	-1.49e-04	-8.75	2.45e-04	3.39e-03	0.0
170	5	1.65	-1.64e-04	-10.49	2.67e-04	5.32e-03	0.0
171	1	1.65	-1.32e-04	-10.45	2.13e-04	5.44e-03	0.0
171	3	1.20	-1.16e-04	-8.75	1.96e-04	3.98e-03	0.0
171	4	1.05	-1.16e-04	-8.75	1.96e-04	3.48e-03	0.0
171	5	1.65	-1.33e-04	-10.45	2.13e-04	5.44e-03	0.0
172	1	1.65	-2.07e-04	-9.26	1.45e-04	5.49e-03	0.0
172	2	0.26	-1.28e-04	-10.08	1.92e-04	8.96e-04	0.0
172	3	1.20	-1.67e-04	-7.89	1.47e-04	4.03e-03	0.0
172	4	1.05	-1.57e-04	-7.99	1.53e-04	3.53e-03	0.0
173	1	1.65	-2.33e-04	-8.47	7.91e-05	5.52e-03	0.0
173	2	0.26	-1.20e-04	-9.96	1.48e-04	9.38e-04	0.0
173	3	1.20	-1.81e-04	-7.31	9.06e-05	4.06e-03	0.0
173	4	1.05	-1.66e-04	-7.49	9.86e-05	3.56e-03	0.0
174	1	1.65	-2.33e-04	-7.80	3.67e-05	5.51e-03	0.0
174	2	0.26	-1.09e-04	-9.86	1.13e-04	9.69e-04	0.0
174	3	1.20	-1.78e-04	-6.82	5.28e-05	4.06e-03	0.0
174	4	1.05	-1.60e-04	-7.06	6.14e-05	3.57e-03	0.0
175	1	1.65	-1.75e-04	-7.25	8.82e-06	5.50e-03	0.0
175	2	0.26	-7.63e-05	-9.78	5.50e-05	9.92e-04	0.0
175	3	1.20	-1.31e-04	-6.42	1.94e-05	4.06e-03	0.0
175	4	1.05	-1.18e-04	-6.71	2.46e-05	3.57e-03	0.0
176	1	1.65	-7.58e-05	-7.01	0.0	5.49e-03	0.0
176	2	0.26	-3.57e-05	-9.74	-4.75e-06	1.00e-03	0.0
176	3	1.20	-5.65e-05	-6.24	-1.12e-06	4.05e-03	0.0
176	4	1.05	-5.27e-05	-6.55	-1.67e-06	3.57e-03	0.0
176	5	1.65	-7.59e-05	-7.01	0.0	5.49e-03	0.0
177	1	1.65	2.70e-05	-6.94	-3.73e-06	5.46e-03	0.0
177	2	0.26	8.21e-06	-9.72	-6.96e-05	1.01e-03	0.0
177	3	1.20	2.16e-05	-6.19	-1.93e-05	4.03e-03	0.0
177	4	1.05	1.58e-05	-6.51	-2.67e-05	3.55e-03	0.0
178	1	1.65	7.07e-05	-7.91	-4.11e-05	5.52e-03	0.0
178	2	0.26	3.39e-05	-9.88	-1.14e-04	9.63e-04	0.0
178	3	1.20	5.72e-05	-6.90	-5.62e-05	4.06e-03	0.0
178	4	1.05	4.89e-05	-7.13	-6.45e-05	3.57e-03	0.0
179	1	1.65	9.24e-05	-8.55	-9.79e-05	5.50e-03	0.0
179	2	0.26	5.64e-05	-9.96	-1.73e-04	9.32e-04	0.0
179	3	1.20	7.77e-05	-7.37	-1.10e-04	4.04e-03	0.0
179	4	1.05	6.96e-05	-7.54	-1.19e-04	3.55e-03	0.0
180	1	1.65	1.26e-04	-8.40	-1.36e-04	5.43e-03	0.0
180	2	0.26	8.28e-05	-9.90	-2.15e-04	9.18e-04	0.0
180	3	1.20	1.07e-04	-7.24	-1.46e-04	3.99e-03	0.0
180	4	1.05	9.76e-05	-7.42	-1.55e-04	3.50e-03	0.0
181	1	1.65	1.20e-04	-8.75	-1.81e-04	5.37e-03	0.0
181	2	0.26	9.70e-05	-9.91	-2.34e-04	8.84e-04	0.0
181	3	1.20	1.07e-04	-7.49	-1.81e-04	3.94e-03	0.0
181	4	1.05	1.02e-04	-7.63	-1.88e-04	3.45e-03	0.0
182	1	1.65	1.19e-04	-8.78	-1.90e-04	5.33e-03	0.0
182	2	0.26	9.85e-05	-9.88	-2.30e-04	8.66e-04	0.0
182	3	1.20	1.07e-04	-7.50	-1.87e-04	3.91e-03	0.0
182	4	1.05	1.02e-04	-7.64	-1.92e-04	3.43e-03	0.0
183	1	1.65	1.42e-04	-8.30	-1.68e-04	5.35e-03	0.0
183	2	0.26	1.02e-04	-9.82	-2.25e-04	8.91e-04	0.0
183	3	1.20	1.23e-04	-7.16	-1.70e-04	3.93e-03	0.0
183	4	1.05	1.14e-04	-7.34	-1.77e-04	3.45e-03	0.0
184	1	1.65	1.82e-04	-7.12	-1.16e-04	5.36e-03	0.0
184	2	0.26	1.02e-04	-9.63	-2.02e-04	9.28e-04	0.0
184	3	1.20	1.47e-04	-6.29	-1.28e-04	3.94e-03	0.0
184	4	1.05	1.31e-04	-6.58	-1.38e-04	3.46e-03	0.0
185	1	1.65	1.88e-04	-6.58	-9.13e-05	5.36e-03	0.0
185	2	0.26	9.38e-05	-9.55	-1.86e-04	9.48e-04	0.0
185	3	1.20	1.48e-04	-5.89	-1.08e-04	3.95e-03	0.0
185	4	1.05	1.30e-04	-6.23	-1.18e-04	3.47e-03	0.0
186	1	1.65	1.65e-04	-5.25	-3.77e-05	5.34e-03	0.0
186	2	0.26	6.85e-05	-9.34	-1.38e-04	9.89e-04	0.0
186	3	1.20	1.26e-04	-4.93	-5.88e-05	3.95e-03	0.0
186	4	1.05	1.07e-04	-5.39	-7.02e-05	3.48e-03	0.0
187	1	1.65	1.42e-04	-4.86	-2.46e-05	5.34e-03	0.0
187	2	0.26	5.64e-05	-9.28	-1.17e-04	1.00e-03	0.0
187	3	1.20	1.08e-04	-4.64	-4.50e-05	3.95e-03	0.0
187	4	1.05	9.03e-05	-5.14	-5.53e-05	3.48e-03	0.0
188	1	1.65	6.91e-05	-4.43	-8.16e-06	5.32e-03	0.0
188	2	0.26	2.75e-05	-9.22	-8.12e-05	1.02e-03	0.0
188	3	1.20	5.30e-05	-4.32	-2.47e-05	3.94e-03	0.0
188	4	1.05	4.23e-05	-4.86	-3.28e-05	3.47e-03	0.0
189	1	1.65	3.65e-05	-4.12	-4.22e-06	5.32e-03	0.0

189	2	0.26	8.87e-06	-9.17	-6.01e-05	1.02e-03	0.0
189	3	1.20	2.71e-05	-4.10	-1.73e-05	3.94e-03	0.0
189	4	1.05	1.88e-05	-4.66	-2.35e-05	3.47e-03	0.0
190	1	1.65	-1.03e-04	-3.86	0.0	5.30e-03	0.0
190	2	0.26	-4.25e-05	-9.13	-2.59e-06	1.03e-03	0.0
190	3	1.20	-7.61e-05	-3.90	0.0	3.93e-03	0.0
190	4	1.05	-7.00e-05	-4.49	-1.09e-06	3.47e-03	0.0
190	5	1.65	-1.03e-04	-3.85	0.0	5.31e-03	0.0
191	1	1.65	-1.53e-04	-3.88	1.80e-06	5.31e-03	0.0
191	2	0.26	-6.40e-05	-9.13	2.28e-05	1.03e-03	0.0
191	3	1.20	-1.14e-04	-3.92	6.34e-06	3.93e-03	0.0
191	4	1.05	-1.03e-04	-4.51	8.68e-06	3.47e-03	0.0
192	1	1.65	-2.91e-04	-4.37	1.17e-05	5.32e-03	0.0
192	2	0.26	-1.18e-04	-9.21	8.70e-05	1.02e-03	0.0
192	3	1.20	-2.17e-04	-4.28	2.85e-05	3.94e-03	0.0
192	4	1.05	-1.92e-04	-4.82	3.69e-05	3.47e-03	0.0
193	1	1.65	-3.58e-04	-5.25	3.68e-05	5.35e-03	0.0
193	2	0.26	-1.54e-04	-9.34	1.36e-04	9.92e-04	0.0
193	3	1.20	-2.70e-04	-4.93	5.78e-05	3.95e-03	0.0
193	4	1.05	-2.40e-04	-5.39	6.90e-05	3.48e-03	0.0
194	1	1.65	-3.70e-04	-5.63	5.29e-05	5.35e-03	0.0
194	2	0.26	-1.64e-04	-9.40	1.55e-04	9.77e-04	0.0
194	3	1.20	-2.80e-04	-5.20	7.34e-05	3.95e-03	0.0
194	4	1.05	-2.50e-04	-5.63	8.50e-05	3.48e-03	0.0
195	1	1.65	-3.50e-04	-7.12	1.15e-04	5.36e-03	0.0
195	2	0.26	-1.75e-04	-9.63	2.01e-04	9.31e-04	0.0
195	3	1.20	-2.71e-04	-6.29	1.28e-04	3.95e-03	0.0
195	4	1.05	-2.45e-04	-6.58	1.38e-04	3.47e-03	0.0
196	1	1.65	-3.33e-04	-7.62	1.38e-04	5.35e-03	0.0
196	2	0.26	-1.82e-04	-9.71	2.13e-04	9.10e-04	0.0
196	3	1.20	-2.63e-04	-6.66	1.46e-04	3.94e-03	0.0
196	4	1.05	-2.40e-04	-6.90	1.55e-04	3.45e-03	0.0
197	1	1.65	-2.70e-04	-8.78	1.89e-04	5.34e-03	0.0
197	2	0.26	-1.75e-04	-9.89	2.33e-04	8.74e-04	0.0
197	3	1.20	-2.21e-04	-7.51	1.87e-04	3.92e-03	0.0
197	4	1.05	-2.07e-04	-7.65	1.93e-04	3.44e-03	0.0
198	1	1.65	-2.30e-04	-9.44	2.18e-04	5.32e-03	0.0
198	2	0.26	-1.67e-04	-10.00	2.41e-04	8.45e-04	0.0
198	3	1.20	-1.93e-04	-7.99	2.09e-04	3.90e-03	0.0
198	4	1.05	-1.85e-04	-8.07	2.12e-04	3.41e-03	0.0
199	1	1.65	-2.17e-04	-9.57	2.20e-04	5.37e-03	0.0
199	2	0.26	-1.58e-04	-10.06	2.46e-04	8.53e-04	0.0
199	3	1.20	-1.82e-04	-8.09	2.12e-04	3.93e-03	0.0
199	4	1.05	-1.75e-04	-8.16	2.15e-04	3.44e-03	0.0
200	1	1.65	-2.02e-04	-9.64	2.06e-04	5.42e-03	0.0
200	2	0.26	-1.42e-04	-10.11	2.33e-04	8.63e-04	0.0
200	3	1.20	-1.68e-04	-8.16	1.99e-04	3.97e-03	0.0
200	4	1.05	-1.61e-04	-8.22	2.02e-04	3.48e-03	0.0
201	1	1.65	-3.47e-06	-4.61	0.0	5.32e-03	0.0
201	2	0.26	-6.99e-06	-9.27	-4.37e-05	1.03e-03	0.0
201	3	1.20	-2.70e-06	-4.46	-1.02e-05	3.94e-03	0.0
201	4	1.05	-6.75e-06	-4.98	-1.51e-05	3.48e-03	0.0
201	7	1.36	-1.16e-05	-3.93	-5.01e-06	4.46e-03	0.0
202	1	1.65	-2.05e-04	-4.68	0.0	5.33e-03	0.0
202	2	0.26	-8.63e-05	-9.28	5.04e-05	1.03e-03	0.0
202	3	1.20	-1.54e-04	-4.51	1.21e-05	3.95e-03	0.0
202	4	1.05	-1.38e-04	-5.03	1.77e-05	3.48e-03	0.0
203	1	1.65	-3.04e-04	-5.14	1.53e-05	5.34e-03	0.0
203	2	0.26	-1.33e-04	-9.35	1.11e-04	1.01e-03	0.0
203	3	1.20	-2.30e-04	-4.85	3.65e-05	3.95e-03	0.0
203	4	1.05	-2.05e-04	-5.32	4.72e-05	3.48e-03	0.0
204	1	1.65	-3.46e-04	-6.76	8.29e-05	5.38e-03	0.0
204	2	0.26	-1.72e-04	-9.60	1.86e-04	9.59e-04	0.0
204	3	1.20	-2.68e-04	-6.04	1.02e-04	3.96e-03	0.0
204	4	1.05	-2.42e-04	-6.36	1.14e-04	3.48e-03	0.0
205	1	1.65	1.49e-04	-8.02	-1.48e-04	5.37e-03	0.0
205	2	0.26	1.03e-04	-9.79	-2.22e-04	9.10e-04	0.0
205	3	1.20	1.27e-04	-6.96	-1.55e-04	3.95e-03	0.0
205	4	1.05	1.17e-04	-7.17	-1.64e-04	3.46e-03	0.0
206	1	1.65	1.56e-04	-7.69	-1.19e-04	5.40e-03	0.0
206	2	0.26	9.41e-05	-9.76	-2.10e-04	9.32e-04	0.0
206	3	1.20	1.29e-04	-6.72	-1.32e-04	3.97e-03	0.0
206	4	1.05	1.16e-04	-6.96	-1.43e-04	3.49e-03	0.0
207	1	1.65	1.59e-04	-6.56	-5.78e-05	5.38e-03	0.0
207	2	0.26	8.07e-05	-9.58	-1.69e-04	9.76e-04	0.0
207	3	1.20	1.26e-04	-5.89	-8.01e-05	3.97e-03	0.0
207	4	1.05	1.10e-04	-6.24	-9.27e-05	3.49e-03	0.0

208	1	1.65	1.68e-04	-6.93	-8.30e-05	5.39e-03	0.0
208	2	0.26	8.84e-05	-9.63	-1.87e-04	9.57e-04	0.0
208	3	1.20	1.35e-04	-6.16	-1.02e-04	3.97e-03	0.0
208	4	1.05	1.19e-04	-6.47	-1.14e-04	3.49e-03	0.0
209	1	1.65	1.49e-04	-5.94	-3.42e-05	5.37e-03	0.0
209	2	0.26	6.61e-05	-9.48	-1.44e-04	9.95e-04	0.0
209	3	1.20	1.15e-04	-5.44	-5.78e-05	3.97e-03	0.0
209	4	1.05	9.85e-05	-5.84	-7.02e-05	3.49e-03	0.0
210	1	1.65	1.25e-04	-5.45	-1.86e-05	5.36e-03	0.0
210	2	0.26	5.06e-05	-9.40	-1.19e-04	1.01e-03	0.0
210	3	1.20	9.57e-05	-5.07	-4.12e-05	3.96e-03	0.0
210	4	1.05	8.01e-05	-5.52	-5.24e-05	3.49e-03	0.0
211	1	1.65	-8.45e-05	-4.65	1.72e-06	5.32e-03	0.0
211	2	0.26	-3.35e-05	-9.28	-9.28e-06	1.04e-03	0.0
211	3	1.20	-6.20e-05	-4.49	-1.03e-06	3.95e-03	0.0
211	4	1.05	-5.73e-05	-5.01	-2.25e-06	3.48e-03	0.0
211	5	1.65	-8.47e-05	-4.65	1.73e-06	5.32e-03	0.0
212	1	1.65	-3.19e-04	-5.95	2.53e-05	5.37e-03	0.0
212	2	0.26	-1.43e-04	-9.49	1.34e-04	1.00e-03	0.0
212	3	1.20	-2.42e-04	-5.44	4.95e-05	3.97e-03	0.0
212	4	1.05	-2.16e-04	-5.84	6.18e-05	3.50e-03	0.0
213	1	1.65	-1.50e-04	-4.56	0.0	5.32e-03	0.0
213	2	0.26	-6.55e-05	-9.26	2.57e-05	1.04e-03	0.0
213	3	1.20	-1.13e-04	-4.42	5.53e-06	3.94e-03	0.0
213	4	1.05	-1.02e-04	-4.95	8.43e-06	3.48e-03	0.0
214	1	1.65	-3.42e-04	-6.29	5.02e-05	5.38e-03	0.0
214	2	0.26	-1.59e-04	-9.53	1.61e-04	9.83e-04	0.0
214	3	1.20	-2.62e-04	-5.69	7.31e-05	3.97e-03	0.0
214	4	1.05	-2.34e-04	-6.06	8.57e-05	3.50e-03	0.0
215	1	1.65	-2.57e-04	-8.90	1.85e-04	5.38e-03	0.0
215	2	0.26	-1.67e-04	-9.95	2.36e-04	8.83e-04	0.0
215	3	1.20	-2.10e-04	-7.61	1.85e-04	3.95e-03	0.0
215	4	1.05	-1.97e-04	-7.74	1.91e-04	3.46e-03	0.0
216	1	1.65	-3.15e-04	-7.86	1.31e-04	5.39e-03	0.0
216	2	0.26	-1.74e-04	-9.78	2.15e-04	9.22e-04	0.0
216	3	1.20	-2.49e-04	-6.84	1.42e-04	3.96e-03	0.0
216	4	1.05	-2.28e-04	-7.06	1.52e-04	3.48e-03	0.0
217	1	1.65	-2.47e-04	-9.01	1.75e-04	5.42e-03	0.0
217	2	0.26	-1.56e-04	-9.99	2.28e-04	8.92e-04	0.0
217	3	1.20	-2.00e-04	-7.69	1.76e-04	3.98e-03	0.0
217	4	1.05	-1.88e-04	-7.82	1.83e-04	3.49e-03	0.0
218	1	1.65	1.50e-04	-7.54	-8.81e-05	5.42e-03	0.0
218	2	0.26	8.50e-05	-9.75	-1.90e-04	9.53e-04	0.0
218	3	1.20	1.22e-04	-6.61	-1.07e-04	3.99e-03	0.0
218	4	1.05	1.09e-04	-6.87	-1.19e-04	3.51e-03	0.0
219	1	1.65	9.56e-05	-6.76	-1.36e-05	5.43e-03	0.0
219	2	0.26	3.57e-05	-9.67	-1.13e-04	1.01e-03	0.0
219	3	1.20	7.32e-05	-6.05	-3.67e-05	4.01e-03	0.0
219	4	1.05	6.07e-05	-6.38	-4.78e-05	3.53e-03	0.0
220	1	1.65	-2.91e-04	-7.31	4.31e-05	5.45e-03	0.0
220	2	0.26	-1.34e-04	-9.75	1.51e-04	9.83e-04	0.0
220	3	1.20	-2.22e-04	-6.45	6.61e-05	4.02e-03	0.0
220	4	1.05	-1.99e-04	-6.73	7.83e-05	3.53e-03	0.0
221	1	1.65	-2.24e-04	-6.21	-1.11e-06	5.40e-03	0.0
221	2	0.26	-9.47e-05	-9.58	7.48e-05	1.02e-03	0.0
221	3	1.20	-1.68e-04	-5.65	1.70e-05	3.99e-03	0.0
221	4	1.05	-1.50e-04	-6.03	2.55e-05	3.52e-03	0.0
222	1	1.65	-9.73e-05	-6.15	0.0	5.40e-03	0.0
222	2	0.26	-4.64e-05	-9.57	6.88e-06	1.03e-03	0.0
222	3	1.20	-7.34e-05	-5.60	1.27e-06	4.00e-03	0.0
222	4	1.05	-6.80e-05	-5.99	2.05e-06	3.52e-03	0.0
222	5	1.65	-9.74e-05	-6.15	0.0	5.40e-03	0.0
223	1	1.65	-2.18e-04	-5.38	-3.10e-06	5.35e-03	0.0
223	2	0.26	-9.25e-05	-9.42	6.23e-05	1.03e-03	0.0
223	3	1.20	-1.63e-04	-5.04	1.27e-05	3.97e-03	0.0
223	4	1.05	-1.46e-04	-5.49	2.00e-05	3.50e-03	0.0
224	1	1.65	-2.74e-04	-5.46	6.43e-06	5.36e-03	0.0
224	2	0.26	-1.17e-04	-9.42	9.74e-05	1.02e-03	0.0
224	3	1.20	-2.07e-04	-5.09	2.74e-05	3.97e-03	0.0
224	4	1.05	-1.84e-04	-5.54	3.75e-05	3.49e-03	0.0
225	1	1.65	-8.74e-05	-5.39	3.18e-06	5.35e-03	0.0
225	2	0.26	-3.71e-05	-9.43	-3.02e-06	1.04e-03	0.0
225	3	1.20	-6.47e-05	-5.04	1.23e-06	3.96e-03	0.0
225	4	1.05	-5.97e-05	-5.50	0.0	3.50e-03	0.0
225	5	1.65	-8.76e-05	-5.39	3.19e-06	5.35e-03	0.0
226	1	1.65	-3.16e-04	-6.85	4.43e-05	5.41e-03	0.0
226	2	0.26	-1.48e-04	-9.65	1.58e-04	9.85e-04	0.0

226	3	1.20	-2.42e-04	-6.11	6.86e-05	4.00e-03	0.0
226	4	1.05	-2.17e-04	-6.43	8.15e-05	3.52e-03	0.0
227	1	1.65	1.30e-04	-6.58	-2.84e-05	5.41e-03	0.0
227	2	0.26	5.68e-05	-9.62	-1.41e-04	9.96e-04	0.0
227	3	1.20	1.01e-04	-5.92	-5.34e-05	3.99e-03	0.0
227	4	1.05	8.60e-05	-6.26	-6.61e-05	3.51e-03	0.0
228	1	1.65	1.13e-04	-6.04	-1.42e-05	5.38e-03	0.0
228	2	0.26	4.67e-05	-9.52	-1.20e-04	1.01e-03	0.0
228	3	1.20	8.72e-05	-5.51	-3.84e-05	3.98e-03	0.0
228	4	1.05	7.32e-05	-5.91	-5.02e-05	3.51e-03	0.0
229	1	1.65	-2.78e-04	-7.92	7.09e-05	5.47e-03	0.0
229	2	0.26	-1.37e-04	-9.85	1.69e-04	9.58e-04	0.0
229	3	1.20	-2.15e-04	-6.90	8.98e-05	4.03e-03	0.0
229	4	1.05	-1.95e-04	-7.13	1.01e-04	3.54e-03	0.0
230	1	1.65	-3.75e-06	-5.54	2.20e-06	5.36e-03	0.0
230	2	0.26	-5.89e-06	-9.45	-4.78e-05	1.03e-03	0.0
230	3	1.20	-2.39e-06	-5.15	-9.78e-06	3.97e-03	0.0
230	4	1.05	-5.97e-06	-5.59	-1.53e-05	3.50e-03	0.0
230	7	1.36	-1.06e-05	-4.71	-3.90e-06	4.49e-03	0.0
231	1	1.65	-3.20e-04	-7.24	7.68e-05	5.41e-03	0.0
231	2	0.26	-1.57e-04	-9.70	1.85e-04	9.62e-04	0.0
231	3	1.20	-2.47e-04	-6.39	9.74e-05	3.99e-03	0.0
231	4	1.05	-2.23e-04	-6.68	1.10e-04	3.51e-03	0.0
232	1	1.65	-2.02e-05	-6.18	2.80e-06	5.40e-03	0.0
232	2	0.26	-1.01e-05	-9.58	-4.04e-05	1.03e-03	0.0
232	3	1.20	-1.40e-05	-5.63	-7.64e-06	4.00e-03	0.0
232	4	1.05	-1.54e-05	-6.01	-1.24e-05	3.52e-03	0.0
232	7	1.36	-2.16e-05	-5.25	-2.56e-06	4.53e-03	0.0
233	1	1.65	-2.55e-04	-4.36	5.07e-06	5.32e-03	0.0
233	2	0.26	-1.02e-04	-9.21	6.72e-05	1.03e-03	0.0
233	3	1.20	-1.90e-04	-4.28	1.95e-05	3.94e-03	0.0
233	4	1.05	-1.68e-04	-4.82	2.64e-05	3.47e-03	0.0
234	1	1.65	-1.44e-04	-5.19	-1.18e-06	5.34e-03	0.0
234	2	0.26	-6.20e-05	-9.39	2.46e-05	1.04e-03	0.0
234	3	1.20	-1.08e-04	-4.89	4.89e-06	3.95e-03	0.0
234	4	1.05	-9.76e-05	-5.37	7.76e-06	3.49e-03	0.0
235	1	1.65	-3.70e-04	-6.52	9.43e-05	5.35e-03	0.0
235	2	0.26	-1.81e-04	-9.53	1.84e-04	9.45e-04	0.0
235	3	1.20	-2.85e-04	-5.85	1.09e-04	3.94e-03	0.0
235	4	1.05	-2.57e-04	-6.19	1.20e-04	3.47e-03	0.0
236	1	1.65	-5.92e-06	-3.73	-1.22e-06	5.30e-03	0.0
236	2	0.26	-5.18e-06	-9.10	-3.90e-05	1.02e-03	0.0
236	3	1.20	-4.11e-06	-3.81	-1.05e-05	3.93e-03	0.0
236	4	1.05	-7.92e-06	-4.41	-1.47e-05	3.46e-03	0.0
236	7	1.36	-1.40e-05	-3.19	-6.01e-06	4.45e-03	0.0
237	1	1.65	8.14e-05	-6.05	-3.02e-06	5.38e-03	0.0
237	2	0.26	3.44e-05	-9.53	-9.71e-05	1.02e-03	0.0
237	3	1.20	6.34e-05	-5.52	-2.55e-05	3.98e-03	0.0
237	4	1.05	5.24e-05	-5.92	-3.60e-05	3.51e-03	0.0
238	1	1.65	8.93e-05	-5.24	-7.99e-06	5.35e-03	0.0
238	2	0.26	3.93e-05	-9.37	-9.89e-05	1.02e-03	0.0
238	3	1.20	6.95e-05	-4.92	-2.90e-05	3.96e-03	0.0
238	4	1.05	5.77e-05	-5.39	-3.92e-05	3.49e-03	0.0
239	1	1.65	-3.19e-04	-4.36	1.82e-05	5.32e-03	0.0
239	2	0.26	-1.33e-04	-9.19	1.02e-04	1.01e-03	0.0
239	3	1.20	-2.40e-04	-4.27	3.64e-05	3.94e-03	0.0
239	4	1.05	-2.12e-04	-4.81	4.58e-05	3.47e-03	0.0
240	1	1.65	-1.95e-04	-6.67	0.0	5.44e-03	0.0
240	2	0.26	-8.12e-05	-9.67	6.03e-05	1.02e-03	0.0
240	3	1.20	-1.45e-04	-5.99	1.50e-05	4.02e-03	0.0
240	4	1.05	-1.30e-04	-6.33	2.17e-05	3.54e-03	0.0
241	1	1.65	-2.55e-04	-7.12	1.88e-05	5.45e-03	0.0
241	2	0.26	-1.17e-04	-9.73	1.16e-04	9.97e-04	0.0
241	3	1.20	-1.94e-04	-6.31	4.07e-05	4.03e-03	0.0
241	4	1.05	-1.74e-04	-6.62	5.16e-05	3.54e-03	0.0
242	1	1.65	4.90e-05	-5.10	-1.77e-06	5.34e-03	0.0
242	2	0.26	1.92e-05	-9.36	-7.55e-05	1.03e-03	0.0
242	3	1.20	3.81e-05	-4.82	-1.91e-05	3.95e-03	0.0
242	4	1.05	2.97e-05	-5.30	-2.73e-05	3.49e-03	0.0
243	1	1.65	1.10e-04	-7.38	-3.80e-05	5.46e-03	0.0
243	2	0.26	5.20e-05	-9.77	-1.42e-04	9.82e-04	0.0
243	3	1.20	8.76e-05	-6.50	-6.02e-05	4.03e-03	0.0
243	4	1.05	7.54e-05	-6.78	-7.19e-05	3.54e-03	0.0
244	1	1.65	1.05e-04	-9.23	-2.09e-04	5.32e-03	0.0
244	2	0.26	1.05e-04	-9.96	-2.37e-04	8.49e-04	0.0
244	3	1.20	1.00e-04	-7.84	-2.01e-04	3.90e-03	0.0
244	4	1.05	9.84e-05	-7.93	-2.05e-04	3.41e-03	0.0

245	1	1.65	-2.88e-04	-8.40	1.53e-04	5.40e-03	0.0
245	2	0.26	-1.73e-04	-9.88	2.23e-04	9.07e-04	0.0
245	3	1.20	-2.31e-04	-7.24	1.59e-04	3.97e-03	0.0
245	4	1.05	-2.15e-04	-7.42	1.68e-04	3.48e-03	0.0
246	1	1.65	-3.20e-04	-7.54	1.05e-04	5.40e-03	0.0
246	2	0.26	-1.67e-04	-9.74	2.02e-04	9.41e-04	0.0
246	3	1.20	-2.50e-04	-6.61	1.21e-04	3.98e-03	0.0
246	4	1.05	-2.27e-04	-6.87	1.32e-04	3.49e-03	0.0
247	1	1.65	-1.67e-04	-10.66	2.58e-04	5.27e-03	0.0
247	3	1.20	-1.53e-04	-8.88	2.37e-04	3.85e-03	0.0
247	4	1.05	-1.55e-04	-8.84	2.36e-04	3.37e-03	0.0
247	5	1.65	-1.68e-04	-10.66	2.58e-04	5.27e-03	0.0
248	1	1.65	-6.55e-05	-11.98	2.84e-04	5.21e-03	0.0
248	2	0.26	-1.39e-04	-10.36	2.36e-04	7.47e-04	0.0
248	3	1.20	-8.05e-05	-9.84	2.54e-04	3.79e-03	0.0
248	4	1.05	-9.47e-05	-9.68	2.50e-04	3.31e-03	0.0
248	5	1.65	-6.67e-05	-11.98	2.84e-04	5.21e-03	0.0
249	1	1.65	6.08e-06	-13.21	3.06e-04	5.13e-03	0.0
249	2	0.26	-1.14e-04	-10.55	2.26e-04	7.05e-04	0.0
249	3	1.20	-2.78e-05	-10.74	2.66e-04	3.73e-03	0.0
249	4	1.05	-4.94e-05	-10.47	2.59e-04	3.25e-03	0.0
249	5	1.65	4.41e-06	-13.22	3.06e-04	5.14e-03	0.0
250	1	1.65	3.43e-05	-14.33	2.91e-04	5.05e-03	0.0
250	2	0.26	-1.06e-04	-10.72	1.99e-04	6.55e-04	0.0
250	3	1.20	-7.83e-06	-11.56	2.50e-04	3.66e-03	0.0
250	4	1.05	-3.29e-05	-11.18	2.41e-04	3.19e-03	0.0
250	5	1.65	3.24e-05	-14.33	2.91e-04	5.05e-03	0.0
251	1	1.65	9.54e-05	-15.27	2.62e-04	4.98e-03	0.0
251	3	1.20	4.30e-05	-12.25	2.23e-04	3.61e-03	0.0
251	4	1.05	1.51e-05	-11.79	2.13e-04	3.13e-03	0.0
251	5	1.65	9.34e-05	-15.28	2.62e-04	4.98e-03	0.0
252	1	1.65	5.01e-05	-16.02	2.06e-04	4.90e-03	0.0
252	2	0.26	-6.94e-05	-10.99	1.25e-04	5.84e-04	0.0
252	3	1.20	1.35e-05	-12.80	1.73e-04	3.55e-03	0.0
252	4	1.05	-7.55e-06	-12.27	1.65e-04	3.07e-03	0.0
252	5	1.65	4.85e-05	-16.02	2.06e-04	4.91e-03	0.0
253	1	1.65	5.14e-05	-16.53	1.30e-04	4.86e-03	0.0
253	3	1.20	2.36e-05	-13.17	1.09e-04	3.51e-03	0.0
253	4	1.05	7.94e-06	-12.59	1.04e-04	3.04e-03	0.0
253	5	1.65	5.03e-05	-16.53	1.30e-04	4.86e-03	0.0
254	1	1.65	1.50e-05	-16.79	4.62e-05	4.83e-03	0.0
254	2	0.26	-2.47e-05	-11.11	2.79e-05	5.49e-04	0.0
254	3	1.20	5.99e-06	-13.36	3.87e-05	3.48e-03	0.0
254	4	1.05	0.0	-12.76	3.69e-05	3.02e-03	0.0
254	5	1.65	1.46e-05	-16.79	4.62e-05	4.83e-03	0.0
255	1	1.65	-6.64e-05	-16.79	-4.81e-05	4.83e-03	0.0
255	3	1.20	-4.53e-05	-13.36	-4.03e-05	3.49e-03	0.0
255	4	1.05	-3.84e-05	-12.76	-3.84e-05	3.02e-03	0.0
255	5	1.65	-6.59e-05	-16.79	-4.81e-05	4.84e-03	0.0
256	1	1.65	-6.81e-05	-16.53	-1.30e-04	4.86e-03	0.0
256	3	1.20	-3.60e-05	-13.17	-1.09e-04	3.51e-03	0.0
256	4	1.05	-2.26e-05	-12.59	-1.03e-04	3.04e-03	0.0
256	5	1.65	-6.71e-05	-16.53	-1.30e-04	4.86e-03	0.0
257	1	1.65	-1.42e-04	-16.02	-2.09e-04	4.91e-03	0.0
257	3	1.20	-8.40e-05	-12.80	-1.76e-04	3.55e-03	0.0
257	4	1.05	-5.95e-05	-12.27	-1.68e-04	3.08e-03	0.0
257	5	1.65	-1.40e-04	-16.02	-2.09e-04	4.91e-03	0.0
258	1	1.65	-1.38e-04	-15.27	-2.57e-04	4.98e-03	0.0
258	3	1.20	-7.44e-05	-12.25	-2.19e-04	3.60e-03	0.0
258	4	1.05	-4.66e-05	-11.79	-2.09e-04	3.13e-03	0.0
258	5	1.65	-1.36e-04	-15.28	-2.57e-04	4.98e-03	0.0
259	1	1.65	-1.18e-04	-14.33	-2.96e-04	5.05e-03	0.0
259	3	1.20	-5.57e-05	-11.56	-2.54e-04	3.66e-03	0.0
259	4	1.05	-2.78e-05	-11.18	-2.45e-04	3.19e-03	0.0
259	5	1.65	-1.16e-04	-14.33	-2.96e-04	5.05e-03	0.0
260	1	1.65	-1.07e-04	-13.21	-3.01e-04	5.13e-03	0.0
260	3	1.20	-4.81e-05	-10.75	-2.63e-04	3.73e-03	0.0
260	4	1.05	-2.22e-05	-10.47	-2.55e-04	3.25e-03	0.0
260	5	1.65	-1.05e-04	-13.22	-3.01e-04	5.14e-03	0.0
261	1	1.65	-1.88e-05	-11.98	-2.86e-04	5.20e-03	0.0
261	2	0.26	9.05e-05	-10.36	-2.35e-04	7.49e-04	0.0
261	3	1.20	1.89e-05	-9.84	-2.55e-04	3.79e-03	0.0
261	4	1.05	3.65e-05	-9.68	-2.51e-04	3.31e-03	0.0
261	5	1.65	-1.78e-05	-11.98	-2.86e-04	5.21e-03	0.0
262	1	1.65	2.34e-05	-10.66	-2.56e-04	5.27e-03	0.0
262	2	0.26	8.45e-05	-10.16	-2.39e-04	8.00e-04	0.0
262	3	1.20	4.30e-05	-8.88	-2.36e-04	3.85e-03	0.0

262	4	1.05	5.18e-05	-8.84	-2.35e-04	3.37e-03	0.0
262	5	1.65	2.37e-05	-10.67	-2.56e-04	5.27e-03	0.0
263	1	1.65	-1.26e-05	-12.43	2.10e-04	5.27e-03	0.0
263	2	0.26	-7.11e-05	-10.58	1.41e-04	7.10e-04	0.0
263	3	1.20	-2.63e-05	-10.20	1.80e-04	3.83e-03	0.0
263	4	1.05	-3.74e-05	-10.02	1.73e-04	3.33e-03	0.0
263	5	1.65	-1.36e-05	-12.43	2.10e-04	5.27e-03	0.0
264	1	1.65	-1.69e-06	-13.37	1.57e-04	5.09e-03	0.0
264	2	0.26	-5.06e-05	-10.71	9.34e-05	6.31e-04	0.0
264	3	1.20	-1.32e-05	-10.89	1.32e-04	3.69e-03	0.0
264	4	1.05	-2.24e-05	-10.62	1.25e-04	3.20e-03	0.0
264	5	1.65	-2.48e-06	-13.37	1.57e-04	5.09e-03	0.0
265	1	1.65	-4.24e-05	-11.75	2.69e-04	5.31e-03	0.0
265	2	0.26	-9.46e-05	-10.46	2.00e-04	7.45e-04	0.0
265	3	1.20	-5.24e-05	-9.70	2.35e-04	3.87e-03	0.0
265	4	1.05	-6.27e-05	-9.58	2.29e-04	3.37e-03	0.0
265	5	1.65	-4.33e-05	-11.75	2.69e-04	5.31e-03	0.0
266	1	1.65	-5.60e-05	-11.80	3.15e-04	5.25e-03	0.0
266	2	0.26	-1.18e-04	-10.42	2.43e-04	7.39e-04	0.0
266	3	1.20	-6.79e-05	-9.73	2.77e-04	3.82e-03	0.0
266	4	1.05	-8.00e-05	-9.60	2.70e-04	3.33e-03	0.0
266	5	1.65	-5.70e-05	-11.80	3.15e-04	5.25e-03	0.0
267	1	1.65	-1.03e-04	-11.35	2.98e-04	5.25e-03	0.0
267	2	0.26	-1.41e-04	-10.32	2.52e-04	7.66e-04	0.0
267	3	1.20	-1.05e-04	-9.40	2.68e-04	3.83e-03	0.0
267	4	1.05	-1.13e-04	-9.30	2.64e-04	3.35e-03	0.0
267	5	1.65	-1.04e-04	-11.35	2.98e-04	5.26e-03	0.0
268	1	1.65	-1.07e-04	-11.25	2.77e-04	5.24e-03	0.0
268	2	0.26	-1.43e-04	-10.26	2.44e-04	7.75e-04	0.0
268	3	1.20	-1.08e-04	-9.31	2.51e-04	3.83e-03	0.0
268	4	1.05	-1.16e-04	-9.22	2.48e-04	3.34e-03	0.0
268	5	1.65	-1.08e-04	-11.25	2.77e-04	5.24e-03	0.0
269	1	1.65	-7.89e-05	-11.76	2.96e-04	5.21e-03	0.0
269	2	0.26	-1.38e-04	-10.35	2.45e-04	7.48e-04	0.0
269	3	1.20	-8.88e-05	-9.68	2.64e-04	3.80e-03	0.0
269	4	1.05	-1.01e-04	-9.55	2.60e-04	3.31e-03	0.0
269	5	1.65	-7.99e-05	-11.76	2.96e-04	5.21e-03	0.0
270	1	1.65	-9.73e-06	-12.93	3.13e-04	5.13e-03	0.0
270	2	0.26	-1.20e-04	-10.54	2.33e-04	7.01e-04	0.0
270	3	1.20	-3.95e-05	-10.55	2.73e-04	3.73e-03	0.0
270	4	1.05	-5.96e-05	-10.30	2.65e-04	3.25e-03	0.0
270	5	1.65	-1.13e-05	-12.94	3.13e-04	5.14e-03	0.0
271	1	1.65	2.39e-05	-13.47	3.08e-04	5.09e-03	0.0
271	2	0.26	-1.05e-04	-10.62	2.19e-04	6.75e-04	0.0
271	3	1.20	-1.38e-05	-10.94	2.67e-04	3.70e-03	0.0
271	4	1.05	-3.68e-05	-10.65	2.58e-04	3.22e-03	0.0
271	5	1.65	2.21e-05	-13.47	3.09e-04	5.09e-03	0.0
272	1	1.65	6.75e-05	-14.80	2.71e-04	4.97e-03	0.0
272	2	0.26	-7.64e-05	-10.82	1.75e-04	6.12e-04	0.0
272	3	1.20	2.27e-05	-11.91	2.30e-04	3.60e-03	0.0
272	4	1.05	-2.19e-06	-11.50	2.20e-04	3.13e-03	0.0
272	5	1.65	6.57e-05	-14.80	2.71e-04	4.97e-03	0.0
273	1	1.65	6.83e-05	-15.19	2.39e-04	4.93e-03	0.0
273	3	1.20	2.58e-05	-12.19	2.02e-04	3.57e-03	0.0
273	4	1.05	2.21e-06	-11.74	1.93e-04	3.09e-03	0.0
273	5	1.65	6.66e-05	-15.19	2.39e-04	4.93e-03	0.0
274	1	1.65	3.96e-05	-15.63	1.78e-04	4.87e-03	0.0
274	2	0.26	-5.59e-05	-10.96	1.08e-04	5.63e-04	0.0
274	3	1.20	1.13e-05	-12.52	1.49e-04	3.52e-03	0.0
274	4	1.05	-5.37e-06	-12.03	1.42e-04	3.05e-03	0.0
274	5	1.65	3.84e-05	-15.64	1.78e-04	4.87e-03	0.0
275	1	1.65	4.16e-05	-15.93	1.34e-04	4.85e-03	0.0
275	2	0.26	-4.25e-05	-11.00	8.03e-05	5.54e-04	0.0
275	3	1.20	1.70e-05	-12.74	1.13e-04	3.50e-03	0.0
275	4	1.05	2.61e-06	-12.22	1.07e-04	3.04e-03	0.0
275	5	1.65	4.05e-05	-15.93	1.34e-04	4.85e-03	0.0
276	1	1.65	-2.85e-05	-16.23	1.44e-06	4.82e-03	0.0
276	3	1.20	-2.17e-05	-12.96	1.17e-06	3.48e-03	0.0
276	4	1.05	-2.13e-05	-12.41	1.11e-06	3.01e-03	0.0
276	5	1.65	-2.85e-05	-16.24	1.44e-06	4.82e-03	0.0
277	1	1.65	-4.83e-05	-16.12	-5.47e-05	4.82e-03	0.0
277	3	1.20	-3.11e-05	-12.88	-4.56e-05	3.48e-03	0.0
277	4	1.05	-2.56e-05	-12.34	-4.33e-05	3.01e-03	0.0
277	5	1.65	-4.79e-05	-16.13	-5.47e-05	4.83e-03	0.0
278	1	1.65	-1.18e-04	-15.69	-1.87e-04	4.88e-03	0.0
278	3	1.20	-6.95e-05	-12.56	-1.58e-04	3.53e-03	0.0
278	4	1.05	-4.92e-05	-12.07	-1.50e-04	3.06e-03	0.0

278	5	1.65	-1.17e-04	-15.70	-1.88e-04	4.88e-03	0.0
279	1	1.65	-1.37e-04	-14.80	-2.66e-04	4.97e-03	0.0
279	3	1.20	-7.53e-05	-11.91	-2.26e-04	3.60e-03	0.0
279	4	1.05	-4.85e-05	-11.50	-2.16e-04	3.12e-03	0.0
279	5	1.65	-1.35e-04	-14.80	-2.66e-04	4.97e-03	0.0
280	1	1.65	-1.34e-04	-14.41	-2.89e-04	5.01e-03	0.0
280	3	1.20	-7.05e-05	-11.63	-2.47e-04	3.63e-03	0.0
280	4	1.05	-4.29e-05	-11.25	-2.37e-04	3.15e-03	0.0
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281	1	1.65	-9.88e-05	-13.01	-3.10e-04	5.13e-03	0.0
281	3	1.20	-4.29e-05	-10.60	-2.70e-04	3.73e-03	0.0
281	4	1.05	-1.82e-05	-10.35	-2.63e-04	3.25e-03	0.0
281	5	1.65	-9.73e-05	-13.01	-3.10e-04	5.13e-03	0.0
282	1	1.65	-6.68e-05	-12.46	-3.11e-04	5.17e-03	0.0
282	2	0.26	6.72e-05	-10.47	-2.40e-04	7.20e-04	0.0
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282	4	1.05	2.87e-06	-10.00	-2.67e-04	3.28e-03	0.0
282	5	1.65	-6.55e-05	-12.47	-3.12e-04	5.17e-03	0.0
283	1	1.65	-4.05e-06	-11.24	-2.80e-04	5.24e-03	0.0
283	2	0.26	8.25e-05	-10.27	-2.45e-04	7.71e-04	0.0
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284	1	1.65	2.61e-05	-10.62	-2.64e-04	5.28e-03	0.0
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285	1	1.65	2.15e-05	-10.59	-2.72e-04	5.32e-03	0.0
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285	3	1.20	4.01e-05	-8.84	-2.50e-04	3.89e-03	0.0
285	4	1.05	4.82e-05	-8.82	-2.49e-04	3.40e-03	0.0
285	5	1.65	2.17e-05	-10.59	-2.72e-04	5.32e-03	0.0
286	1	1.65	7.60e-06	-10.57	-2.61e-04	5.37e-03	0.0
286	2	0.26	6.42e-05	-10.25	-2.41e-04	8.12e-04	0.0
286	3	1.20	2.68e-05	-8.84	-2.39e-04	3.92e-03	0.0
286	4	1.05	3.46e-05	-8.82	-2.38e-04	3.43e-03	0.0
286	5	1.65	7.83e-06	-10.57	-2.61e-04	5.37e-03	0.0
287	1	1.65	-2.58e-05	-10.92	-2.43e-04	5.39e-03	0.0
287	2	0.26	4.30e-05	-10.33	-2.08e-04	7.99e-04	0.0
287	3	1.20	0.0	-9.10	-2.19e-04	3.94e-03	0.0
287	4	1.05	9.06e-06	-9.05	-2.17e-04	3.44e-03	0.0
287	5	1.65	-2.54e-05	-10.92	-2.43e-04	5.40e-03	0.0
288	1	1.65	-9.75e-05	-12.61	-2.10e-04	5.23e-03	0.0
288	3	1.20	-5.67e-05	-10.34	-1.79e-04	3.80e-03	0.0
288	4	1.05	-4.09e-05	-10.14	-1.72e-04	3.31e-03	0.0
288	5	1.65	-9.66e-05	-12.61	-2.10e-04	5.24e-03	0.0
289	1	1.65	-8.37e-05	-13.07	-1.07e-04	5.19e-03	0.0
289	3	1.20	-5.41e-05	-10.68	-9.07e-05	3.77e-03	0.0
289	4	1.05	-4.38e-05	-10.43	-8.66e-05	3.28e-03	0.0
289	5	1.65	-8.32e-05	-13.07	-1.07e-04	5.20e-03	0.0
290	1	1.65	-4.19e-05	-13.33	1.15e-05	5.14e-03	0.0
290	3	1.20	-3.24e-05	-10.87	9.68e-06	3.73e-03	0.0
290	4	1.05	-3.16e-05	-10.60	9.19e-06	3.24e-03	0.0
290	5	1.65	-4.20e-05	-13.33	1.15e-05	5.14e-03	0.0
291	1	1.65	1.80e-05	-15.50	1.02e-04	4.84e-03	0.0
291	2	0.26	-3.71e-05	-10.96	5.96e-05	5.42e-04	0.0
291	3	1.20	3.73e-06	-12.43	8.55e-05	3.49e-03	0.0
291	4	1.05	-5.87e-06	-11.96	8.12e-05	3.02e-03	0.0
291	5	1.65	1.73e-05	-15.51	1.02e-04	4.84e-03	0.0
292	1	1.65	-9.66e-05	-15.42	-1.46e-04	4.85e-03	0.0
292	3	1.20	-5.88e-05	-12.37	-1.22e-04	3.50e-03	0.0
292	4	1.05	-4.39e-05	-11.90	-1.16e-04	3.03e-03	0.0
292	5	1.65	-9.56e-05	-15.42	-1.46e-04	4.86e-03	0.0
293	1	1.65	-1.09e-04	-14.91	-2.33e-04	4.91e-03	0.0
293	3	1.20	-6.01e-05	-12.00	-1.96e-04	3.55e-03	0.0
293	4	1.05	-3.95e-05	-11.58	-1.86e-04	3.08e-03	0.0
293	5	1.65	-1.08e-04	-14.92	-2.33e-04	4.92e-03	0.0
294	1	1.65	-9.50e-05	-13.27	-3.22e-04	5.09e-03	0.0
294	3	1.20	-4.08e-05	-10.80	-2.77e-04	3.70e-03	0.0
294	4	1.05	-1.69e-05	-10.52	-2.68e-04	3.22e-03	0.0
294	5	1.65	-9.35e-05	-13.27	-3.22e-04	5.10e-03	0.0
295	1	1.65	-6.82e-05	-12.07	3.16e-04	5.19e-03	0.0
295	2	0.26	-1.36e-04	-10.42	2.48e-04	7.30e-04	0.0
295	3	1.20	-8.16e-05	-9.92	2.79e-04	3.78e-03	0.0
295	4	1.05	-9.50e-05	-9.76	2.72e-04	3.30e-03	0.0
295	5	1.65	-6.93e-05	-12.07	3.16e-04	5.20e-03	0.0

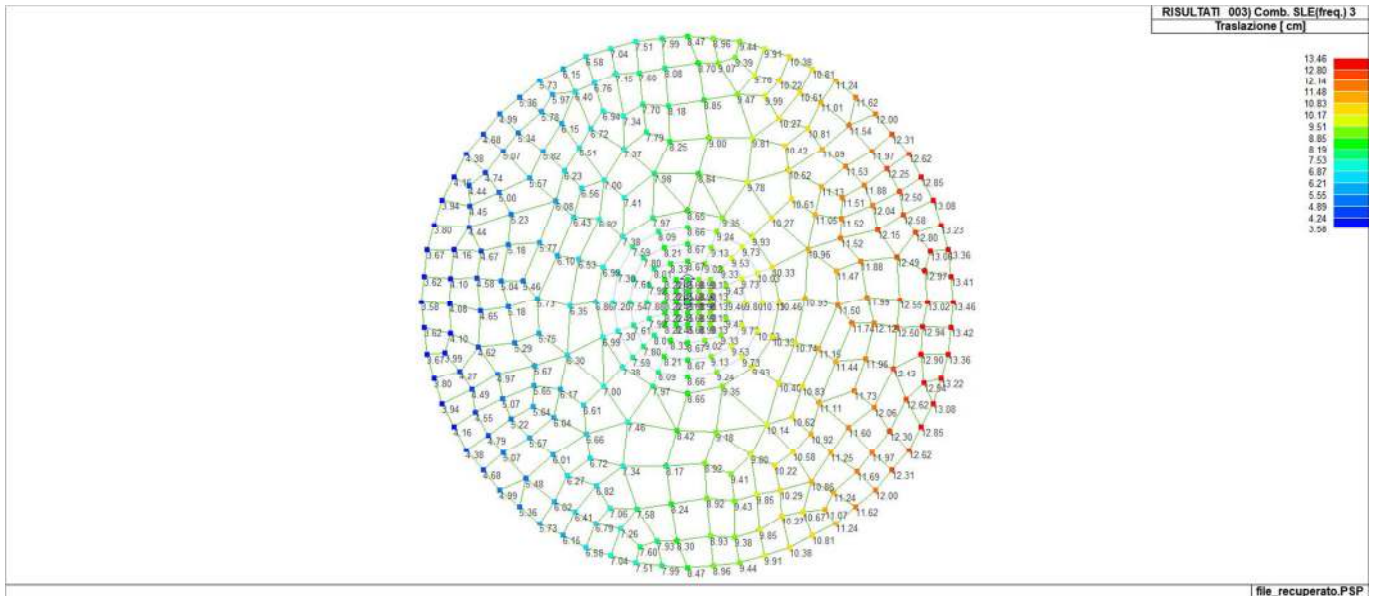
296	1	1.65	-3.28e-05	-12.45	3.26e-04	5.18e-03	0.0
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296	3	1.20	-5.41e-05	-10.20	2.85e-04	3.76e-03	0.0
296	4	1.05	-7.05e-05	-10.00	2.76e-04	3.28e-03	0.0
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297	4	1.05	-1.65e-05	-11.12	2.35e-04	3.14e-03	0.0
297	5	1.65	4.03e-05	-14.19	2.90e-04	5.00e-03	0.0
298	1	1.65	1.56e-05	-13.58	3.15e-04	5.06e-03	0.0
298	2	0.26	-9.82e-05	-10.67	2.09e-04	6.45e-04	0.0
298	3	1.20	-1.70e-05	-11.03	2.69e-04	3.67e-03	0.0
298	4	1.05	-3.74e-05	-10.73	2.58e-04	3.19e-03	0.0
298	5	1.65	1.40e-05	-13.58	3.15e-04	5.06e-03	0.0
299	1	1.65	5.41e-06	-13.19	3.22e-04	5.10e-03	0.0
299	2	0.26	-1.06e-04	-10.60	2.24e-04	6.71e-04	0.0
299	3	1.20	-2.58e-05	-10.74	2.78e-04	3.71e-03	0.0
299	4	1.05	-4.59e-05	-10.48	2.68e-04	3.22e-03	0.0
299	5	1.65	3.85e-06	-13.19	3.23e-04	5.11e-03	0.0
300	1	1.65	5.12e-05	-14.67	2.52e-04	4.94e-03	0.0
300	2	0.26	-6.79e-05	-10.83	1.55e-04	5.88e-04	0.0
300	3	1.20	1.51e-05	-11.82	2.12e-04	3.57e-03	0.0
300	4	1.05	-5.68e-06	-11.42	2.03e-04	3.10e-03	0.0
300	5	1.65	4.97e-05	-14.67	2.52e-04	4.94e-03	0.0
301	1	1.65	-3.93e-05	-15.58	6.03e-06	4.82e-03	0.0
301	3	1.20	-3.03e-05	-12.49	4.92e-06	3.48e-03	0.0
301	4	1.05	-2.93e-05	-12.01	4.61e-06	3.01e-03	0.0
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302	1	1.65	-4.60e-05	-15.51	-6.37e-05	4.83e-03	0.0
302	3	1.20	-2.90e-05	-12.44	-5.29e-05	3.48e-03	0.0
302	4	1.05	-2.36e-05	-11.96	-5.02e-05	3.02e-03	0.0
302	5	1.65	-4.57e-05	-15.51	-6.37e-05	4.83e-03	0.0
303	1	1.65	-1.17e-04	-14.27	-2.76e-04	4.98e-03	0.0
303	3	1.20	-6.28e-05	-11.54	-2.34e-04	3.60e-03	0.0
303	4	1.05	-3.98e-05	-11.17	-2.23e-04	3.13e-03	0.0
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304	1	1.65	-1.12e-04	-13.80	-3.09e-04	5.04e-03	0.0
304	3	1.20	-5.60e-05	-11.19	-2.63e-04	3.65e-03	0.0
304	4	1.05	-3.16e-05	-10.87	-2.52e-04	3.17e-03	0.0
304	5	1.65	-1.11e-04	-13.80	-3.09e-04	5.04e-03	0.0
305	1	1.65	-7.97e-06	-11.30	-3.00e-04	5.27e-03	0.0
305	2	0.26	7.69e-05	-10.32	-2.53e-04	7.67e-04	0.0
305	3	1.20	2.12e-05	-9.36	-2.69e-04	3.84e-03	0.0
305	4	1.05	3.42e-05	-9.27	-2.65e-04	3.35e-03	0.0
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306	1	1.65	-7.18e-05	-12.48	-3.24e-04	5.17e-03	0.0
306	3	1.20	-2.42e-05	-10.22	-2.83e-04	3.76e-03	0.0
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306	5	1.65	-7.06e-05	-12.48	-3.24e-04	5.17e-03	0.0
307	1	1.65	-1.85e-05	-12.65	3.24e-04	5.16e-03	0.0
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307	3	1.20	-4.20e-05	-10.35	2.80e-04	3.75e-03	0.0
307	4	1.05	-5.89e-05	-10.14	2.70e-04	3.26e-03	0.0
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308	2	0.26	6.64e-05	-10.34	-2.47e-04	7.69e-04	0.0
308	3	1.20	1.06e-05	-9.33	-2.65e-04	3.86e-03	0.0
308	4	1.05	2.36e-05	-9.25	-2.61e-04	3.37e-03	0.0
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309	1	1.65	3.06e-05	-13.50	2.45e-04	5.05e-03	0.0
309	2	0.26	-6.15e-05	-10.71	1.49e-04	6.20e-04	0.0
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309	4	1.05	-1.22e-05	-10.70	1.97e-04	3.17e-03	0.0
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310	1	1.65	-3.70e-05	-14.12	-1.61e-05	4.94e-03	0.0
310	3	1.20	-2.67e-05	-11.44	-1.31e-05	3.57e-03	0.0
310	4	1.05	-2.50e-05	-11.09	-1.24e-05	3.09e-03	0.0
310	5	1.65	-3.70e-05	-14.12	-1.61e-05	4.94e-03	0.0
311	1	1.65	-8.61e-05	-14.76	-1.48e-04	4.88e-03	0.0
311	3	1.20	-5.21e-05	-11.90	-1.24e-04	3.53e-03	0.0
311	4	1.05	-3.91e-05	-11.49	-1.17e-04	3.05e-03	0.0
311	5	1.65	-8.52e-05	-14.76	-1.48e-04	4.89e-03	0.0
312	1	1.65	-1.12e-04	-14.45	-2.27e-04	4.93e-03	0.0
312	3	1.20	-6.48e-05	-11.67	-1.91e-04	3.57e-03	0.0
312	4	1.05	-4.56e-05	-11.29	-1.81e-04	3.09e-03	0.0
312	5	1.65	-1.10e-04	-14.46	-2.27e-04	4.94e-03	0.0



313	1	1.65	-1.13e-04	-12.91	-2.93e-04	5.13e-03	0.0
313	3	1.20	-6.20e-05	-10.55	-2.50e-04	3.72e-03	0.0
313	4	1.05	-4.10e-05	-10.32	-2.40e-04	3.24e-03	0.0
313	5	1.65	-1.12e-04	-12.91	-2.93e-04	5.14e-03	0.0
314	1	1.65	-9.99e-05	-14.04	-1.75e-04	4.96e-03	0.0
314	3	1.20	-6.14e-05	-11.37	-1.46e-04	3.59e-03	0.0
314	4	1.05	-4.66e-05	-11.04	-1.39e-04	3.11e-03	0.0
314	5	1.65	-9.90e-05	-14.04	-1.75e-04	4.96e-03	0.0
315	1	1.65	-3.64e-05	-14.81	1.15e-05	4.86e-03	0.0
315	3	1.20	-2.86e-05	-11.93	9.54e-06	3.51e-03	0.0
315	4	1.05	-2.82e-05	-11.53	8.92e-06	3.04e-03	0.0
315	5	1.65	-3.64e-05	-14.81	1.15e-05	4.86e-03	0.0
316	1	1.65	-1.10e-04	-13.33	-3.08e-04	5.08e-03	0.0
316	3	1.20	-5.69e-05	-10.85	-2.62e-04	3.68e-03	0.0
316	4	1.05	-3.43e-05	-10.58	-2.51e-04	3.20e-03	0.0
316	5	1.65	-1.09e-04	-13.33	-3.08e-04	5.08e-03	0.0
317	1	1.65	3.05e-05	-13.62	2.90e-04	5.04e-03	0.0
317	2	0.26	-7.68e-05	-10.71	1.82e-04	6.26e-04	0.0
317	3	1.20	0.0	-11.06	2.45e-04	3.65e-03	0.0
317	4	1.05	-1.98e-05	-10.77	2.35e-04	3.17e-03	0.0
317	5	1.65	2.90e-05	-13.62	2.90e-04	5.04e-03	0.0
318	1	1.65	3.74e-05	-14.14	2.59e-04	4.98e-03	0.0
318	2	0.26	-6.83e-05	-10.78	1.58e-04	5.97e-04	0.0
318	3	1.20	6.24e-06	-11.45	2.18e-04	3.60e-03	0.0
318	4	1.05	-1.24e-05	-11.10	2.08e-04	3.12e-03	0.0
318	5	1.65	3.60e-05	-14.15	2.59e-04	4.98e-03	0.0
319	1	1.65	-9.02e-05	-12.25	-2.98e-04	5.24e-03	0.0
319	3	1.20	-4.49e-05	-10.07	-2.57e-04	3.81e-03	0.0
319	4	1.05	-2.62e-05	-9.90	-2.48e-04	3.31e-03	0.0
319	5	1.65	-8.92e-05	-12.25	-2.98e-04	5.24e-03	0.0
320	1	1.65	-7.04e-05	-12.37	-3.26e-04	5.19e-03	0.0
320	3	1.20	-2.50e-05	-10.15	-2.84e-04	3.77e-03	0.0
320	4	1.05	-5.27e-06	-9.96	-2.75e-04	3.29e-03	0.0
320	5	1.65	-6.92e-05	-12.37	-3.27e-04	5.19e-03	0.0
321	1	1.65	4.39e-06	-14.66	1.14e-04	4.88e-03	0.0
321	2	0.26	-4.05e-05	-10.87	6.59e-05	5.55e-04	0.0
321	3	1.20	-6.09e-06	-11.82	9.53e-05	3.52e-03	0.0
321	4	1.05	-1.43e-05	-11.43	9.03e-05	3.05e-03	0.0
321	5	1.65	3.72e-06	-14.66	1.14e-04	4.89e-03	0.0
322	1	1.65	-9.96e-05	-12.87	-3.25e-04	5.14e-03	0.0
322	3	1.20	-4.79e-05	-10.51	-2.80e-04	3.73e-03	0.0
322	4	1.05	-2.59e-05	-10.28	-2.69e-04	3.24e-03	0.0
322	5	1.65	-9.82e-05	-12.87	-3.26e-04	5.14e-03	0.0
323	1	1.65	-1.58e-05	-14.08	9.80e-05	4.95e-03	0.0
323	2	0.26	-4.24e-05	-10.80	5.61e-05	5.77e-04	0.0
323	3	1.20	-1.96e-05	-11.41	8.16e-05	3.58e-03	0.0
323	4	1.05	-2.50e-05	-11.07	7.73e-05	3.10e-03	0.0
323	5	1.65	-1.63e-05	-14.08	9.81e-05	4.95e-03	0.0
324	1	1.65	-1.03e-04	-13.57	-3.00e-04	5.08e-03	0.0
324	3	1.20	-4.41e-05	-11.01	-2.60e-04	3.69e-03	0.0
324	4	1.05	-1.78e-05	-10.71	-2.52e-04	3.21e-03	0.0
324	5	1.65	-1.01e-04	-13.57	-3.00e-04	5.09e-03	0.0
325	1	1.65	-5.43e-05	-14.98	-5.88e-05	4.85e-03	0.0
325	3	1.20	-3.60e-05	-12.06	-4.89e-05	3.50e-03	0.0
325	4	1.05	-3.03e-05	-11.63	-4.63e-05	3.03e-03	0.0
325	5	1.65	-5.40e-05	-14.99	-5.89e-05	4.85e-03	0.0
326	1	1.65	-1.03e-04	-16.13	-1.43e-04	4.86e-03	0.0
326	3	1.20	-6.12e-05	-12.88	-1.21e-04	3.51e-03	0.0
326	4	1.05	-4.43e-05	-12.34	-1.15e-04	3.04e-03	0.0
326	5	1.65	-1.01e-04	-16.13	-1.43e-04	4.86e-03	0.0
327	1	1.65	2.05e-05	-16.30	8.92e-05	4.84e-03	0.0
327	2	0.26	-3.89e-05	-11.05	5.27e-05	5.50e-04	0.0
327	3	1.20	4.69e-06	-13.01	7.50e-05	3.49e-03	0.0
327	4	1.05	-5.56e-06	-12.45	7.13e-05	3.02e-03	0.0
327	5	1.65	1.97e-05	-16.30	8.92e-05	4.84e-03	0.0
328	1	1.65	2.20e-05	-14.16	2.22e-04	4.96e-03	0.0
328	2	0.26	-6.38e-05	-10.79	1.31e-04	5.86e-04	0.0
328	3	1.20	-2.29e-06	-11.46	1.86e-04	3.58e-03	0.0
328	4	1.05	-1.77e-05	-11.11	1.77e-04	3.11e-03	0.0
328	5	1.65	2.08e-05	-14.16	2.22e-04	4.96e-03	0.0
329	1	1.65	3.07e-05	-14.89	2.20e-04	4.91e-03	0.0
329	2	0.26	-6.59e-05	-10.87	1.32e-04	5.72e-04	0.0
329	3	1.20	2.51e-06	-11.98	1.84e-04	3.54e-03	0.0
329	4	1.05	-1.46e-05	-11.56	1.75e-04	3.07e-03	0.0
329	5	1.65	2.93e-05	-14.89	2.20e-04	4.91e-03	0.0
330	1	1.65	-9.59e-05	-13.63	-1.38e-04	5.03e-03	0.0
330	3	1.20	-6.16e-05	-11.08	-1.16e-04	3.64e-03	0.0

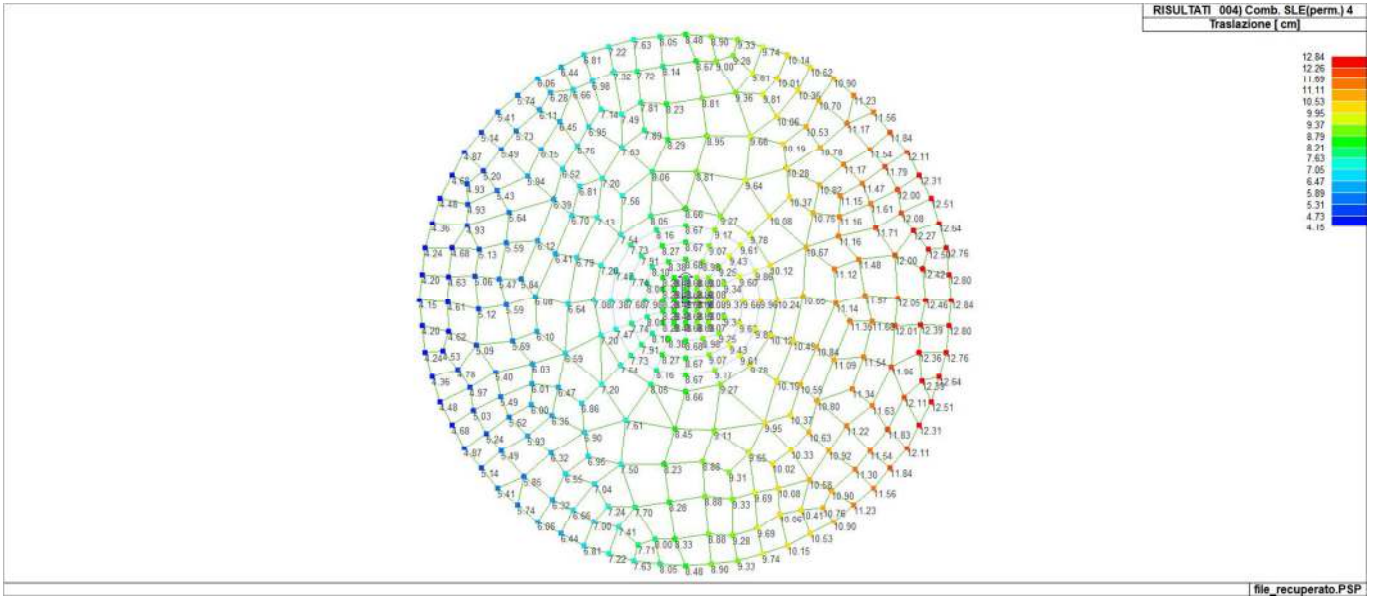
330	4	1.05	-4.91e-05	-10.79	-1.10e-04	3.16e-03	0.0
330	5	1.65	-9.52e-05	-13.64	-1.38e-04	5.04e-03	0.0
331	1	1.65	-9.95e-05	-13.19	-2.44e-04	5.10e-03	0.0
331	3	1.20	-5.60e-05	-10.76	-2.06e-04	3.70e-03	0.0
331	4	1.05	-3.85e-05	-10.50	-1.96e-04	3.21e-03	0.0
331	5	1.65	-9.85e-05	-13.19	-2.44e-04	5.10e-03	0.0
332	1	1.65	2.37e-05	-15.04	1.74e-04	4.88e-03	0.0
332	2	0.26	-5.36e-05	-10.90	1.02e-04	5.59e-04	0.0
332	3	1.20	2.01e-06	-12.09	1.45e-04	3.52e-03	0.0
332	4	1.05	-1.17e-05	-11.66	1.38e-04	3.05e-03	0.0
332	5	1.65	2.26e-05	-15.04	1.74e-04	4.88e-03	0.0
333	1	1.65	6.35e-06	-12.90	2.78e-04	5.15e-03	0.0
333	2	0.26	-7.92e-05	-10.63	1.79e-04	6.64e-04	0.0
333	3	1.20	-1.68e-05	-10.55	2.36e-04	3.73e-03	0.0
333	4	1.05	-3.24e-05	-10.32	2.26e-04	3.25e-03	0.0
333	5	1.65	5.11e-06	-12.90	2.78e-04	5.15e-03	0.0
334	1	1.65	-1.46e-04	-10.81	2.69e-04	5.26e-03	0.0
334	2	0.26	-1.58e-04	-10.20	2.47e-04	7.93e-04	0.0
334	3	1.20	-1.37e-04	-8.99	2.45e-04	3.84e-03	0.0
334	4	1.05	-1.41e-04	-8.94	2.44e-04	3.36e-03	0.0
334	5	1.65	-1.47e-04	-10.81	2.69e-04	5.26e-03	0.0
335	1	1.65	-3.40e-05	-11.87	-3.14e-04	5.22e-03	0.0
335	2	0.26	7.38e-05	-10.41	-2.48e-04	7.38e-04	0.0
335	3	1.20	4.04e-06	-9.77	-2.78e-04	3.80e-03	0.0
335	4	1.05	2.10e-05	-9.63	-2.72e-04	3.32e-03	0.0
335	5	1.65	-3.30e-05	-11.87	-3.14e-04	5.22e-03	0.0

Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
	0.26	-3.88e-04	-16.86	-3.27e-04	5.42e-04	0.0
	1.65	1.99e-04	-2.80	3.26e-04	5.69e-03	0.39

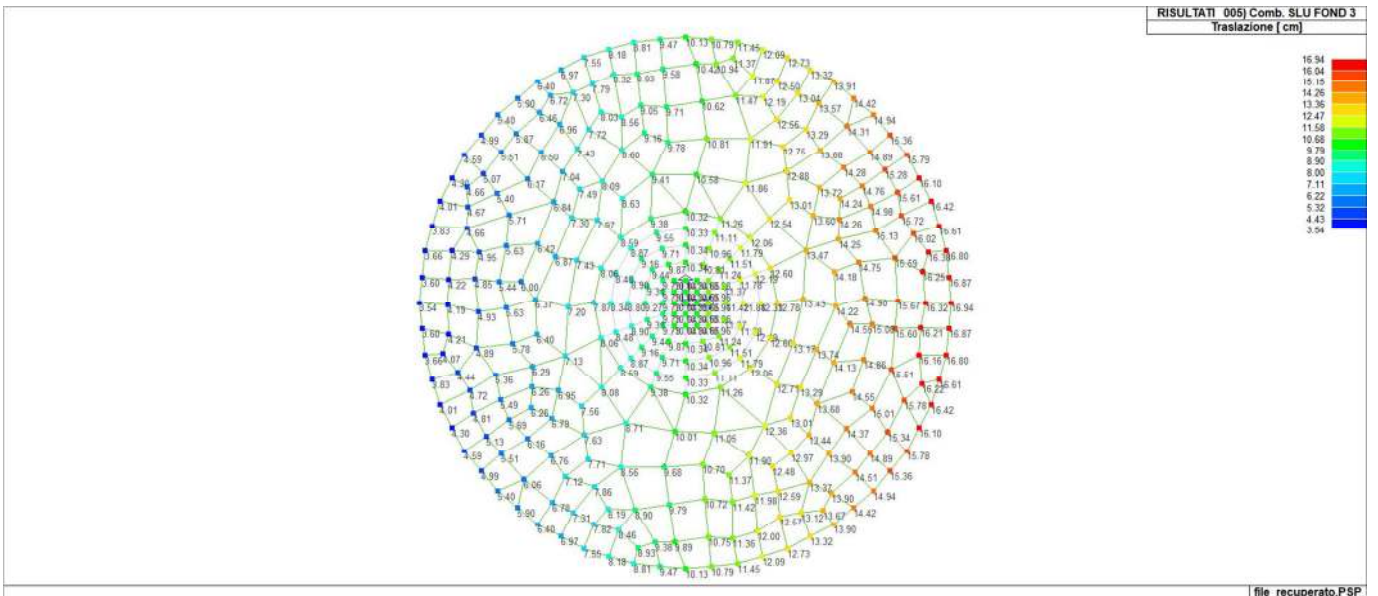


41\_RIS\_SPOSTAMENTI\_003\_Comb. SLE(freq.) 3

file\_recuperato.PSP



41\_RIS\_SPOSTAMENTI\_004\_Comb. SLE(perm.) 4



41\_RIS\_SPOSTAMENTI\_005\_Comb. SLU FOND 3

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
1	3	3589.49	3016.45	-1.241e+05	1.563e+06	1.041e+07	0.0
1	4	2927.66	3023.32	-1.241e+05	1.566e+06	9.164e+06	0.0
1	5	5126.27	3246.16	-1.483e+05	1.682e+06	1.418e+07	0.0
1	7	3580.11	3045.30	-1.248e+05	1.578e+06	1.202e+07	0.0
2	3	4941.94	3526.65	-1.463e+05	1.826e+06	9.712e+06	0.0
2	4	4240.91	3442.74	-1.435e+05	1.782e+06	8.484e+06	0.0
2	5	6678.78	4008.12	-1.786e+05	2.075e+06	1.338e+07	0.0
2	7	4991.68	3659.63	-1.501e+05	1.895e+06	1.129e+07	0.0
3	2	3191.26	2591.99	-1.546e+05	1.342e+06	9.711e+05	0.0
3	3	6457.06	3303.83	-1.654e+05	1.710e+06	8.928e+06	0.0
3	4	5680.97	3177.21	-1.602e+05	1.644e+06	7.739e+06	0.0
3	5	8489.66	3865.07	-2.048e+05	2.000e+06	1.244e+07	0.0
4	2	4030.18	1658.12	-1.575e+05	8.587e+05	5.369e+05	0.0
4	3	7862.12	2289.88	-1.792e+05	1.185e+06	8.202e+06	0.0
4	4	6993.27	2181.92	-1.723e+05	1.129e+06	7.060e+06	0.0

4	5	1.022e+04	2724.26	-2.237e+05	1.409e+06	1.154e+07	0.0
5	2	4464.69	467.59	-1.590e+05	2.423e+05	3.121e+05	0.0
5	3	8612.21	652.16	-1.861e+05	3.375e+05	7.814e+06	0.0
5	4	7691.61	620.78	-1.783e+05	3.213e+05	6.699e+06	0.0
5	5	1.115e+04	776.08	-2.330e+05	4.015e+05	1.106e+07	0.0
6	2	4405.19	-793.26	-1.588e+05	-4.104e+05	3.429e+05	0.0
6	3	8498.97	-1102.32	-1.851e+05	-5.699e+05	7.873e+06	0.0
6	4	7586.93	-1049.25	-1.774e+05	-5.426e+05	6.754e+06	0.0
6	5	1.101e+04	-1315.41	-2.317e+05	-6.799e+05	1.114e+07	0.0
7	2	4269.07	-485.58	-1.563e+05	-2.511e+05	4.139e+05	0.0
7	3	7888.21	-703.56	-1.682e+05	-3.637e+05	8.190e+06	0.0
7	4	7050.15	-666.59	-1.628e+05	-3.446e+05	7.033e+06	0.0
7	5	1.017e+04	-846.45	-2.082e+05	-4.374e+05	1.157e+07	0.0
8	2	3988.66	1384.01	-1.556e+05	7.167e+05	5.589e+05	0.0
8	3	7394.54	1993.16	-1.651e+05	1.031e+06	8.445e+06	0.0
8	4	6591.42	1890.55	-1.601e+05	9.785e+05	7.270e+06	0.0
8	5	9559.48	2388.63	-2.040e+05	1.236e+06	1.189e+07	0.0
9	2	2739.22	2746.36	-1.525e+05	1.422e+06	1.206e+06	0.0
9	3	5247.20	3517.77	-1.506e+05	1.821e+06	9.556e+06	0.0
9	4	4590.63	3381.68	-1.474e+05	1.750e+06	8.305e+06	0.0
9	5	6901.47	4112.35	-1.841e+05	2.128e+06	1.326e+07	0.0
10	3	2955.59	3210.90	-1.285e+05	1.663e+06	1.074e+07	0.0
10	4	2402.20	3187.36	-1.281e+05	1.651e+06	9.437e+06	0.0
10	5	4188.89	3520.88	-1.540e+05	1.823e+06	1.467e+07	0.0
10	7	2818.99	3275.17	-1.297e+05	1.696e+06	1.241e+07	0.0
11	2	221.68	1223.71	-1.477e+05	6.341e+05	2.510e+06	0.0
11	3	589.85	1130.46	-1.235e+05	5.860e+05	1.197e+07	0.0
11	4	277.62	1137.16	-1.238e+05	5.894e+05	1.054e+07	0.0
11	5	1074.60	1206.19	-1.468e+05	6.253e+05	1.628e+07	0.0
11	7	160.30	1136.90	-1.238e+05	5.893e+05	1.379e+07	0.0
12	3	1529.69	993.07	-1.420e+05	5.143e+05	1.148e+07	0.0
12	4	1204.21	973.20	-1.401e+05	5.041e+05	1.006e+07	0.0
12	5	2121.17	1118.89	-1.722e+05	5.794e+05	1.574e+07	0.0
12	7	1125.38	1025.70	-1.450e+05	5.312e+05	1.329e+07	0.0
13	2	1529.79	-3.01	-1.532e+05	-1246.20	1.833e+06	0.0
13	3	2133.80	-4.39	-1.497e+05	-1880.49	1.117e+07	0.0
13	4	1776.45	-4.11	-1.468e+05	-1757.84	9.764e+06	0.0
13	5	2847.39	-5.63	-1.827e+05	-2393.44	1.537e+07	0.0
14	3	1530.51	-997.93	-1.421e+05	-5.160e+05	1.148e+07	0.0
14	4	1205.02	-977.67	-1.401e+05	-5.056e+05	1.006e+07	0.0
14	5	2122.35	-1125.32	-1.722e+05	-5.816e+05	1.574e+07	0.0
14	7	1126.25	-1031.08	-1.450e+05	-5.331e+05	1.329e+07	0.0
15	2	3462.97	-2164.23	-1.543e+05	-1.120e+06	8.311e+05	0.0
15	3	6416.91	-2974.20	-1.591e+05	-1.538e+06	8.951e+06	0.0
15	4	5686.49	-2835.71	-1.548e+05	-1.467e+06	7.738e+06	0.0
15	5	8336.67	-3530.86	-1.958e+05	-1.826e+06	1.252e+07	0.0
16	2	3861.97	-1922.79	-1.569e+05	-9.952e+05	6.241e+05	0.0
16	3	7538.61	-2604.37	-1.764e+05	-1.347e+06	8.369e+06	0.0
16	4	6694.37	-2486.92	-1.698e+05	-1.287e+06	7.215e+06	0.0
16	5	9818.49	-3086.39	-2.198e+05	-1.596e+06	1.175e+07	0.0
17	2	222.95	-1222.87	-1.477e+05	-6.330e+05	2.509e+06	0.0
17	3	588.90	-1132.28	-1.235e+05	-5.859e+05	1.197e+07	0.0
17	4	277.04	-1138.53	-1.238e+05	-5.892e+05	1.054e+07	0.0
17	5	1072.80	-1209.61	-1.468e+05	-6.258e+05	1.629e+07	0.0
17	7	159.05	-1139.27	-1.238e+05	-5.895e+05	1.379e+07	0.0
18	2	231.30	-3045.33	-1.453e+05	-1.577e+06	2.504e+06	0.0
18	3	2201.07	-2554.16	-1.165e+05	-1.322e+06	1.113e+07	0.0
18	4	1643.03	-2611.50	-1.176e+05	-1.352e+06	9.831e+06	0.0
18	5	3384.86	-2624.75	-1.375e+05	-1.359e+06	1.508e+07	0.0
18	7	2060.32	-2523.79	-1.160e+05	-1.307e+06	1.281e+07	0.0
19	3	4010.74	-3569.88	-1.401e+05	-1.847e+06	1.020e+07	0.0
19	4	3421.87	-3476.46	-1.383e+05	-1.799e+06	8.910e+06	0.0
19	5	5409.63	-4069.67	-1.699e+05	-2.105e+06	1.404e+07	0.0
19	7	3924.95	-3713.28	-1.429e+05	-1.921e+06	1.184e+07	0.0
20	2	2954.28	-2757.26	-1.537e+05	-1.427e+06	1.094e+06	0.0
20	3	6125.10	-3428.91	-1.610e+05	-1.774e+06	9.100e+06	0.0
20	4	5365.15	-3307.51	-1.564e+05	-1.711e+06	7.903e+06	0.0
20	5	8095.66	-3987.84	-1.988e+05	-2.063e+06	1.264e+07	0.0
21	3	4533.74	-3437.40	-1.409e+05	-1.779e+06	9.923e+06	0.0
21	4	3852.69	-3374.98	-1.388e+05	-1.747e+06	8.685e+06	0.0
21	5	6191.39	-3860.69	-1.713e+05	-1.998e+06	1.363e+07	0.0
21	7	4556.35	-3545.99	-1.440e+05	-1.835e+06	1.151e+07	0.0
22	2	675.76	-3158.24	-1.446e+05	-1.635e+06	2.274e+06	0.0
22	3	3318.96	-2851.62	-1.184e+05	-1.477e+06	1.055e+07	0.0
22	4	2655.37	-2878.84	-1.191e+05	-1.491e+06	9.305e+06	0.0
22	5	4836.10	-3021.15	-1.405e+05	-1.564e+06	1.433e+07	0.0
22	7	3308.33	-2857.03	-1.183e+05	-1.479e+06	1.216e+07	0.0

23	2	-313.10	-2771.64	-1.399e+05	-1.435e+06	2.786e+06	0.0
23	3	2700.22	-1907.88	-9.623e+04	-9.887e+05	1.087e+07	0.0
23	4	1985.91	-2023.21	-9.970e+04	-1.048e+06	9.652e+06	0.0
23	5	4284.33	-1799.17	-1.102e+05	-9.327e+05	1.462e+07	0.0
23	7	2737.21	-1806.63	-9.307e+04	-9.362e+05	1.246e+07	0.0
24	2	-1114.92	-2115.09	-1.359e+05	-1.095e+06	3.201e+06	0.0
24	3	2481.44	-1043.93	-7.709e+04	-5.417e+05	1.099e+07	0.0
24	4	1682.05	-1195.58	-8.296e+04	-6.199e+05	9.811e+06	0.0
24	5	4243.03	-781.05	-8.402e+04	-4.060e+05	1.464e+07	0.0
24	7	2606.60	-893.32	-7.125e+04	-4.636e+05	1.253e+07	0.0
25	2	-1078.42	-2234.90	-1.406e+05	-1.157e+06	3.183e+06	0.0
25	3	1715.90	-1093.10	-9.440e+04	-5.667e+05	1.138e+07	0.0
25	4	1038.40	-1256.08	-9.826e+04	-6.510e+05	1.014e+07	0.0
25	5	3137.54	-802.92	-1.073e+05	-4.168e+05	1.521e+07	0.0
25	7	1697.37	-931.93	-9.081e+04	-4.833e+05	1.300e+07	0.0
26	2	-611.64	-819.66	-1.437e+05	-4.242e+05	2.942e+06	0.0
26	3	-63.75	-599.06	-1.049e+05	-3.101e+05	1.231e+07	0.0
26	4	-398.62	-628.18	-1.076e+05	-3.251e+05	1.089e+07	0.0
26	5	419.97	-580.72	-1.214e+05	-3.006e+05	1.662e+07	0.0
26	7	-477.40	-575.72	-1.027e+05	-2.979e+05	1.412e+07	0.0
27	2	-1808.75	-1011.03	-1.375e+05	-5.234e+05	3.561e+06	0.0
27	3	2031.97	-225.31	-7.986e+04	-1.170e+05	1.122e+07	0.0
27	4	1197.29	-340.76	-8.554e+04	-1.766e+05	1.006e+07	0.0
27	5	3841.70	24.33	-8.745e+04	1.214e+04	1.485e+07	0.0
27	7	2185.87	-104.50	-7.424e+04	-5.435e+04	1.274e+07	0.0
28	2	-1623.31	-1261.59	-1.329e+05	-6.533e+05	3.465e+06	0.0
28	3	2642.97	-409.77	-6.326e+04	-2.129e+05	1.090e+07	0.0
28	4	1743.73	-533.19	-7.087e+04	-2.766e+05	9.779e+06	0.0
28	5	4646.62	-158.70	-6.513e+04	-8.315e+04	1.443e+07	0.0
28	7	2878.03	-281.70	-5.549e+04	-1.465e+05	1.239e+07	0.0
29	2	-1870.81	-355.01	-1.315e+05	-1.835e+05	3.593e+06	0.0
29	3	2769.07	-109.77	-5.644e+04	-5.650e+04	1.084e+07	0.0
29	4	1813.89	-145.61	-6.489e+04	-7.504e+04	9.744e+06	0.0
29	5	4910.65	-35.50	-5.579e+04	-1.796e+04	1.430e+07	0.0
29	7	3065.83	-72.89	-4.771e+04	-3.733e+04	1.229e+07	0.0
30	2	-1966.24	350.40	-1.369e+05	1.819e+05	3.643e+06	0.0
30	3	2120.15	65.48	-7.674e+04	3.498e+04	1.118e+07	0.0
30	4	1248.31	107.19	-8.281e+04	5.646e+04	1.004e+07	0.0
30	5	4022.29	-24.44	-8.318e+04	-1.118e+04	1.476e+07	0.0
30	7	2314.37	21.60	-7.068e+04	1.234e+04	1.268e+07	0.0
31	2	-912.98	0.29	-1.421e+05	541.38	3.098e+06	0.0
31	3	-122.52	-2.41	-9.725e+04	-628.77	1.234e+07	0.0
31	4	-493.09	-2.00	-1.009e+05	-461.34	1.094e+07	0.0
31	5	438.22	-3.54	-1.109e+05	-1004.22	1.662e+07	0.0
31	7	-499.08	-2.89	-9.392e+04	-817.70	1.414e+07	0.0
32	2	-612.27	816.19	-1.437e+05	4.232e+05	2.942e+06	0.0
32	3	-59.60	594.66	-1.049e+05	3.090e+05	1.231e+07	0.0
32	4	-395.16	623.98	-1.076e+05	3.241e+05	1.089e+07	0.0
32	5	426.00	575.18	-1.214e+05	2.993e+05	1.662e+07	0.0
32	7	-472.36	571.04	-1.027e+05	2.968e+05	1.412e+07	0.0
33	2	-1542.60	1657.15	-1.388e+05	8.589e+05	3.423e+06	0.0
33	3	1786.75	561.09	-8.588e+04	2.926e+05	1.135e+07	0.0
33	4	1029.55	720.54	-9.081e+04	3.748e+05	1.015e+07	0.0
33	5	3396.03	236.89	-9.568e+04	1.255e+05	1.508e+07	0.0
33	7	1854.06	397.29	-8.110e+04	2.079e+05	1.292e+07	0.0
34	2	-1525.43	1492.18	-1.335e+05	7.736e+05	3.414e+06	0.0
34	3	2602.23	548.39	-6.611e+04	2.863e+05	1.093e+07	0.0
34	4	1724.04	684.34	-7.335e+04	3.564e+05	9.789e+06	0.0
34	5	4552.86	281.17	-6.902e+04	1.489e+05	1.448e+07	0.0
34	7	2814.36	408.57	-5.874e+04	2.140e+05	1.242e+07	0.0
35	2	-1834.52	596.23	-1.317e+05	3.094e+05	3.574e+06	0.0
35	3	2750.15	174.46	-5.742e+04	9.188e+04	1.085e+07	0.0
35	4	1803.25	235.65	-6.576e+04	1.234e+05	9.749e+06	0.0
35	5	4871.37	48.80	-5.714e+04	2.739e+04	1.432e+07	0.0
35	7	3037.82	110.82	-4.884e+04	5.901e+04	1.230e+07	0.0
36	2	-939.91	2294.33	-1.368e+05	1.189e+06	3.111e+06	0.0
36	3	2531.83	1236.44	-8.145e+04	6.427e+05	1.096e+07	0.0
36	4	1751.22	1384.96	-8.677e+04	7.193e+05	9.774e+06	0.0
36	5	4252.28	995.97	-8.999e+04	5.191e+05	1.463e+07	0.0
36	7	2638.30	1091.50	-7.622e+04	5.677e+05	1.251e+07	0.0
37	2	-496.23	2714.04	-1.428e+05	1.406e+06	2.881e+06	0.0
37	3	1791.21	1794.49	-1.048e+05	9.308e+05	1.134e+07	0.0
37	4	1188.62	1920.11	-1.074e+05	9.957e+05	1.007e+07	0.0
37	5	3044.72	1646.78	-1.216e+05	8.550e+05	1.526e+07	0.0
37	7	1693.24	1681.78	-1.027e+05	8.725e+05	1.300e+07	0.0
38	2	-96.96	2891.93	-1.411e+05	1.498e+06	2.674e+06	0.0
38	3	2757.35	2142.93	-1.016e+05	1.111e+06	1.084e+07	0.0

38	4	2066.05	2240.01	-1.044e+05	1.162e+06	9.610e+06	0.0
38	5	4292.45	2094.06	-1.175e+05	1.087e+06	1.461e+07	0.0
38	7	2769.58	2064.25	-9.918e+04	1.071e+06	1.244e+07	0.0

<b>Nodo</b>		<b>Azione X</b>	<b>Azione Y</b>	<b>Azione Z</b>	<b>Azione RX</b>	<b>Azione RY</b>	<b>Azione RZ</b>
		-1966.24	-4069.67	-2.330e+05	-2.105e+06	3.121e+05	0.0
		1.115e+04	4112.35	-4.771e+04	2.128e+06	1.662e+07	0.0

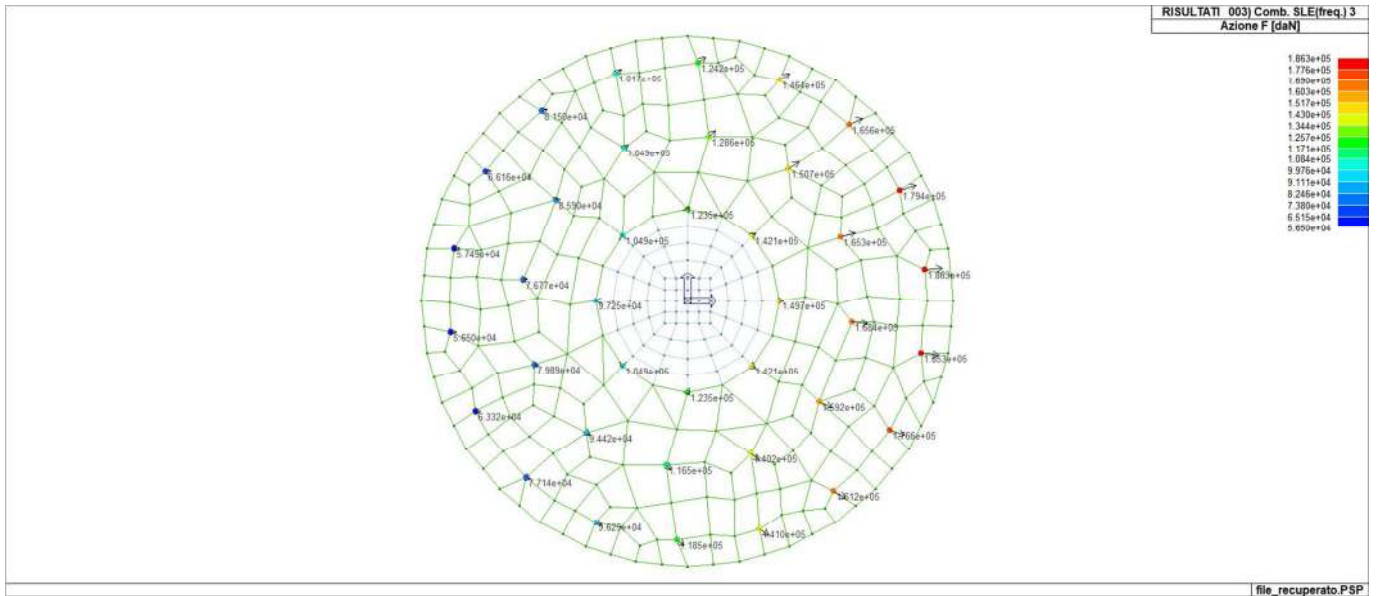
<b>Nodo</b>	<b>Cmb</b>	<b>Azione X</b> daN	<b>Azione Y</b> daN	<b>Azione Z</b> daN	<b>Azione RX</b> daN cm	<b>Azione RY</b> daN cm	<b>Azione RZ</b> daN cm
1	5	5126.27	3246.16	-1.483e+05	1.682e+06	1.418e+07	0.0
	4	2927.66	3023.32	-1.241e+05	1.566e+06	9.164e+06	0.0
	3	3589.49	3016.45	-1.241e+05	1.563e+06	1.041e+07	0.0
	5	5126.27	3246.16	-1.483e+05	1.682e+06	1.418e+07	0.0
	2	971.95	3193.74	-1.458e+05	1.654e+06	2.120e+06	0.0
	5	5126.27	3246.16	-1.483e+05	1.682e+06	1.418e+07	0.0
2	5	6678.78	4008.12	-1.786e+05	2.075e+06	1.338e+07	0.0
	4	4240.91	3442.74	-1.435e+05	1.782e+06	8.484e+06	0.0
	2	2116.18	3113.22	-1.505e+05	1.612e+06	1.528e+06	0.0
	5	6678.78	4008.12	-1.786e+05	2.075e+06	1.338e+07	0.0
	2	2116.18	3113.22	-1.505e+05	1.612e+06	1.528e+06	0.0
	5	6678.78	4008.12	-1.786e+05	2.075e+06	1.338e+07	0.0
3	5	8489.66	3865.07	-2.048e+05	2.000e+06	1.244e+07	0.0
	2	3191.26	2591.99	-1.546e+05	1.342e+06	9.711e+05	0.0
	2	3191.26	2591.99	-1.546e+05	1.342e+06	9.711e+05	0.0
	5	8489.66	3865.07	-2.048e+05	2.000e+06	1.244e+07	0.0
	2	3191.26	2591.99	-1.546e+05	1.342e+06	9.711e+05	0.0
	5	8489.66	3865.07	-2.048e+05	2.000e+06	1.244e+07	0.0
4	5	1.022e+04	2724.26	-2.237e+05	1.409e+06	1.154e+07	0.0
	2	4030.18	1658.12	-1.575e+05	8.587e+05	5.369e+05	0.0
	2	4030.18	1658.12	-1.575e+05	8.587e+05	5.369e+05	0.0
	5	1.022e+04	2724.26	-2.237e+05	1.409e+06	1.154e+07	0.0
	2	4030.18	1658.12	-1.575e+05	8.587e+05	5.369e+05	0.0
	5	1.022e+04	2724.26	-2.237e+05	1.409e+06	1.154e+07	0.0
5	5	1.115e+04	776.08	-2.330e+05	4.015e+05	1.106e+07	0.0
	2	4464.69	467.59	-1.590e+05	2.423e+05	3.121e+05	0.0
	2	4464.69	467.59	-1.590e+05	2.423e+05	3.121e+05	0.0
	5	1.115e+04	776.08	-2.330e+05	4.015e+05	1.106e+07	0.0
	2	4464.69	467.59	-1.590e+05	2.423e+05	3.121e+05	0.0
	5	1.115e+04	776.08	-2.330e+05	4.015e+05	1.106e+07	0.0
6	5	1.101e+04	-1315.41	-2.317e+05	-6.799e+05	1.114e+07	0.0
	2	4405.19	-793.26	-1.588e+05	-4.104e+05	3.429e+05	0.0
	5	1.101e+04	-1315.41	-2.317e+05	-6.799e+05	1.114e+07	0.0
	2	4405.19	-793.26	-1.588e+05	-4.104e+05	3.429e+05	0.0
	2	4405.19	-793.26	-1.588e+05	-4.104e+05	3.429e+05	0.0
	5	1.101e+04	-1315.41	-2.317e+05	-6.799e+05	1.114e+07	0.0
7	5	1.017e+04	-846.45	-2.082e+05	-4.374e+05	1.157e+07	0.0
	2	4269.07	-485.58	-1.563e+05	-2.511e+05	4.139e+05	0.0
	5	1.017e+04	-846.45	-2.082e+05	-4.374e+05	1.157e+07	0.0
	2	4269.07	-485.58	-1.563e+05	-2.511e+05	4.139e+05	0.0
	2	4269.07	-485.58	-1.563e+05	-2.511e+05	4.139e+05	0.0
	5	1.017e+04	-846.45	-2.082e+05	-4.374e+05	1.157e+07	0.0
8	5	9559.48	2388.63	-2.040e+05	1.236e+06	1.189e+07	0.0
	2	3988.66	1384.01	-1.556e+05	7.167e+05	5.589e+05	0.0
	2	3988.66	1384.01	-1.556e+05	7.167e+05	5.589e+05	0.0
	5	9559.48	2388.63	-2.040e+05	1.236e+06	1.189e+07	0.0
	2	3988.66	1384.01	-1.556e+05	7.167e+05	5.589e+05	0.0
	5	9559.48	2388.63	-2.040e+05	1.236e+06	1.189e+07	0.0
9	5	6901.47	4112.35	-1.841e+05	2.128e+06	1.326e+07	0.0
	4	4590.63	3381.68	-1.474e+05	1.750e+06	8.305e+06	0.0
	2	2739.22	2746.36	-1.525e+05	1.422e+06	1.206e+06	0.0
	5	6901.47	4112.35	-1.841e+05	2.128e+06	1.326e+07	0.0
	2	2739.22	2746.36	-1.525e+05	1.422e+06	1.206e+06	0.0
	5	6901.47	4112.35	-1.841e+05	2.128e+06	1.326e+07	0.0
10	5	4188.89	3520.88	-1.540e+05	1.823e+06	1.467e+07	0.0
	4	2402.20	3187.36	-1.281e+05	1.651e+06	9.437e+06	0.0
	6	1102.84	3135.08	-1.468e+05	1.624e+06	3.299e+06	0.0
	5	4188.89	3520.88	-1.540e+05	1.823e+06	1.467e+07	0.0
	2	1048.49	3184.54	-1.478e+05	1.649e+06	2.081e+06	0.0
	5	4188.89	3520.88	-1.540e+05	1.823e+06	1.467e+07	0.0
11	2	221.68	1223.71	-1.477e+05	6.341e+05	2.510e+06	0.0
	3	589.85	1130.46	-1.235e+05	5.860e+05	1.197e+07	0.0
	3	589.85	1130.46	-1.235e+05	5.860e+05	1.197e+07	0.0
	2	221.68	1223.71	-1.477e+05	6.341e+05	2.510e+06	0.0
	2	221.68	1223.71	-1.477e+05	6.341e+05	2.510e+06	0.0
	5	1074.60	1206.19	-1.468e+05	6.253e+05	1.628e+07	0.0

12	5	2121.17	1118.89	-1.722e+05	5.794e+05	1.574e+07	0.0
	4	1204.21	973.20	-1.401e+05	5.041e+05	1.006e+07	0.0
	6	956.19	900.62	-1.518e+05	4.667e+05	3.375e+06	0.0
	5	2121.17	1118.89	-1.722e+05	5.794e+05	1.574e+07	0.0
	2	1113.33	902.90	-1.516e+05	4.678e+05	2.048e+06	0.0
	5	2121.17	1118.89	-1.722e+05	5.794e+05	1.574e+07	0.0
13	5	2847.39	-5.63	-1.827e+05	-2393.44	1.537e+07	0.0
	4	1776.45	-4.11	-1.468e+05	-1757.84	9.764e+06	0.0
	5	2847.39	-5.63	-1.827e+05	-2393.44	1.537e+07	0.0
	2	1529.79	-3.01	-1.532e+05	-1246.20	1.833e+06	0.0
	2	1529.79	-3.01	-1.532e+05	-1246.20	1.833e+06	0.0
	5	2847.39	-5.63	-1.827e+05	-2393.44	1.537e+07	0.0
14	5	2122.35	-1125.32	-1.722e+05	-5.816e+05	1.574e+07	0.0
	4	1205.02	-977.67	-1.401e+05	-5.056e+05	1.006e+07	0.0
	5	2122.35	-1125.32	-1.722e+05	-5.816e+05	1.574e+07	0.0
	6	957.22	-903.60	-1.518e+05	-4.675e+05	3.375e+06	0.0
	2	1114.32	-905.51	-1.516e+05	-4.685e+05	2.048e+06	0.0
	5	2122.35	-1125.32	-1.722e+05	-5.816e+05	1.574e+07	0.0
15	5	8336.67	-3530.86	-1.958e+05	-1.826e+06	1.252e+07	0.0
	2	3462.97	-2164.23	-1.543e+05	-1.120e+06	8.311e+05	0.0
	5	8336.67	-3530.86	-1.958e+05	-1.826e+06	1.252e+07	0.0
	2	3462.97	-2164.23	-1.543e+05	-1.120e+06	8.311e+05	0.0
	2	3462.97	-2164.23	-1.543e+05	-1.120e+06	8.311e+05	0.0
	5	8336.67	-3530.86	-1.958e+05	-1.826e+06	1.252e+07	0.0
16	5	9818.49	-3086.39	-2.198e+05	-1.596e+06	1.175e+07	0.0
	2	3861.97	-1922.79	-1.569e+05	-9.952e+05	6.241e+05	0.0
	5	9818.49	-3086.39	-2.198e+05	-1.596e+06	1.175e+07	0.0
	2	3861.97	-1922.79	-1.569e+05	-9.952e+05	6.241e+05	0.0
	2	3861.97	-1922.79	-1.569e+05	-9.952e+05	6.241e+05	0.0
	5	9818.49	-3086.39	-2.198e+05	-1.596e+06	1.175e+07	0.0
17	2	222.95	-1222.87	-1.477e+05	-6.330e+05	2.509e+06	0.0
	3	588.90	-1132.28	-1.235e+05	-5.859e+05	1.197e+07	0.0
	2	222.95	-1222.87	-1.477e+05	-6.330e+05	2.509e+06	0.0
	3	588.90	-1132.28	-1.235e+05	-5.859e+05	1.197e+07	0.0
	2	222.95	-1222.87	-1.477e+05	-6.330e+05	2.509e+06	0.0
	5	1072.80	-1209.61	-1.468e+05	-6.258e+05	1.629e+07	0.0
18	2	231.30	-3045.33	-1.453e+05	-1.577e+06	2.504e+06	0.0
	7	2060.32	-2523.79	-1.160e+05	-1.307e+06	1.281e+07	0.0
	2	231.30	-3045.33	-1.453e+05	-1.577e+06	2.504e+06	0.0
	7	2060.32	-2523.79	-1.160e+05	-1.307e+06	1.281e+07	0.0
	2	231.30	-3045.33	-1.453e+05	-1.577e+06	2.504e+06	0.0
	5	3384.86	-2624.75	-1.375e+05	-1.359e+06	1.508e+07	0.0
19	5	5409.63	-4069.67	-1.699e+05	-2.105e+06	1.404e+07	0.0
	4	3421.87	-3476.46	-1.383e+05	-1.799e+06	8.910e+06	0.0
	5	5409.63	-4069.67	-1.699e+05	-2.105e+06	1.404e+07	0.0
	2	1907.81	-3087.62	-1.503e+05	-1.598e+06	1.636e+06	0.0
	2	1907.81	-3087.62	-1.503e+05	-1.598e+06	1.636e+06	0.0
	5	5409.63	-4069.67	-1.699e+05	-2.105e+06	1.404e+07	0.0
20	5	8095.66	-3987.84	-1.988e+05	-2.063e+06	1.264e+07	0.0
	2	2954.28	-2757.26	-1.537e+05	-1.427e+06	1.094e+06	0.0
	5	8095.66	-3987.84	-1.988e+05	-2.063e+06	1.264e+07	0.0
	2	2954.28	-2757.26	-1.537e+05	-1.427e+06	1.094e+06	0.0
	2	2954.28	-2757.26	-1.537e+05	-1.427e+06	1.094e+06	0.0
	5	8095.66	-3987.84	-1.988e+05	-2.063e+06	1.264e+07	0.0
21	5	6191.39	-3860.69	-1.713e+05	-1.998e+06	1.363e+07	0.0
	4	3852.69	-3374.98	-1.388e+05	-1.747e+06	8.685e+06	0.0
	5	6191.39	-3860.69	-1.713e+05	-1.998e+06	1.363e+07	0.0
	6	1982.18	-3151.38	-1.498e+05	-1.632e+06	2.843e+06	0.0
	2	1827.16	-3164.32	-1.494e+05	-1.638e+06	1.677e+06	0.0
	5	6191.39	-3860.69	-1.713e+05	-1.998e+06	1.363e+07	0.0
22	2	675.76	-3158.24	-1.446e+05	-1.635e+06	2.274e+06	0.0
	7	3308.33	-2857.03	-1.183e+05	-1.479e+06	1.216e+07	0.0
	2	675.76	-3158.24	-1.446e+05	-1.635e+06	2.274e+06	0.0
	3	3318.96	-2851.62	-1.184e+05	-1.477e+06	1.055e+07	0.0
	2	675.76	-3158.24	-1.446e+05	-1.635e+06	2.274e+06	0.0
	5	4836.10	-3021.15	-1.405e+05	-1.564e+06	1.433e+07	0.0
23	2	-313.10	-2771.64	-1.399e+05	-1.435e+06	2.786e+06	0.0
	7	2737.21	-1806.63	-9.307e+04	-9.362e+05	1.246e+07	0.0
	2	-313.10	-2771.64	-1.399e+05	-1.435e+06	2.786e+06	0.0
	5	4284.33	-1799.17	-1.102e+05	-9.327e+05	1.462e+07	0.0
	2	-313.10	-2771.64	-1.399e+05	-1.435e+06	2.786e+06	0.0
	5	4284.33	-1799.17	-1.102e+05	-9.327e+05	1.462e+07	0.0
24	2	-1114.92	-2115.09	-1.359e+05	-1.095e+06	3.201e+06	0.0
	7	2606.60	-893.32	-7.125e+04	-4.636e+05	1.253e+07	0.0
	2	-1114.92	-2115.09	-1.359e+05	-1.095e+06	3.201e+06	0.0
	5	4243.03	-781.05	-8.402e+04	-4.060e+05	1.464e+07	0.0
	2	-1114.92	-2115.09	-1.359e+05	-1.095e+06	3.201e+06	0.0

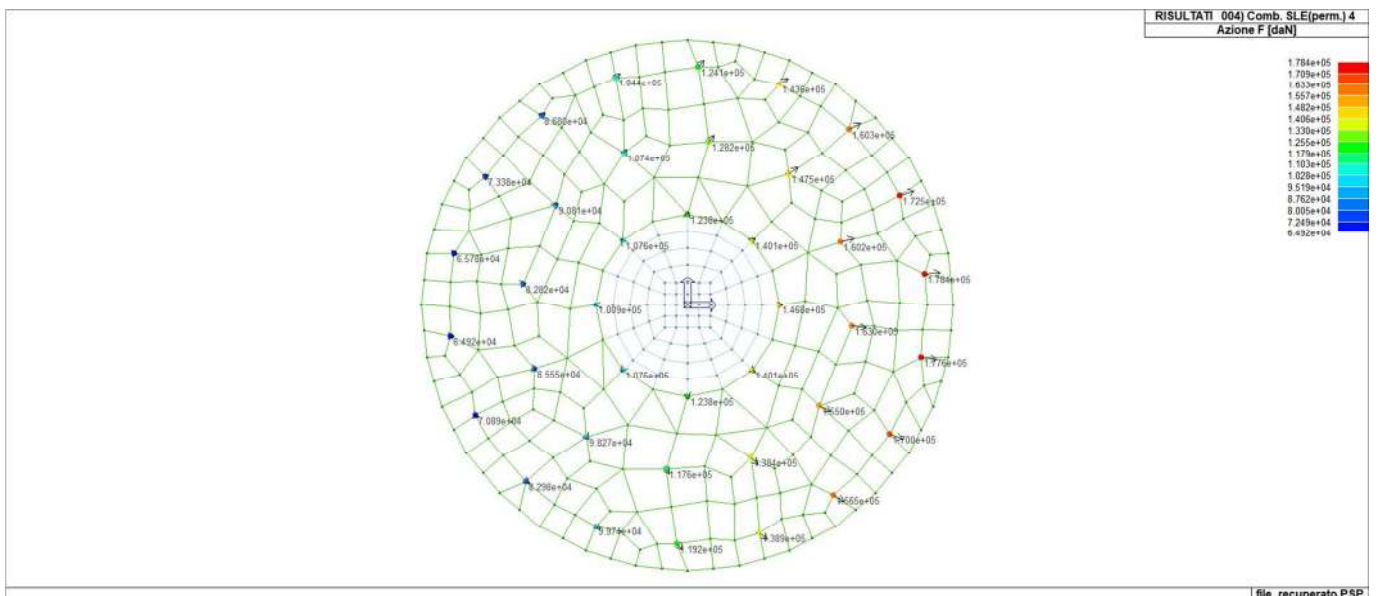
	5	4243.03	-781.05	-8.402e+04	-4.060e+05	1.464e+07	0.0
25	2	-1078.42	-2234.90	-1.406e+05	-1.157e+06	3.183e+06	0.0
	7	1697.37	-931.93	-9.081e+04	-4.833e+05	1.300e+07	0.0
	2	-1078.42	-2234.90	-1.406e+05	-1.157e+06	3.183e+06	0.0
	5	3137.54	-802.92	-1.073e+05	-4.168e+05	1.521e+07	0.0
	2	-1078.42	-2234.90	-1.406e+05	-1.157e+06	3.183e+06	0.0
	5	3137.54	-802.92	-1.073e+05	-4.168e+05	1.521e+07	0.0
26	2	-611.64	-819.66	-1.437e+05	-4.242e+05	2.942e+06	0.0
	7	-477.40	-575.72	-1.027e+05	-2.979e+05	1.412e+07	0.0
	2	-611.64	-819.66	-1.437e+05	-4.242e+05	2.942e+06	0.0
	7	-477.40	-575.72	-1.027e+05	-2.979e+05	1.412e+07	0.0
	2	-611.64	-819.66	-1.437e+05	-4.242e+05	2.942e+06	0.0
	5	419.97	-580.72	-1.214e+05	-3.006e+05	1.662e+07	0.0
27	2	-1808.75	-1011.03	-1.375e+05	-5.234e+05	3.561e+06	0.0
	7	2185.87	-104.50	-7.424e+04	-5.435e+04	1.274e+07	0.0
	2	-1808.75	-1011.03	-1.375e+05	-5.234e+05	3.561e+06	0.0
	5	3841.70	24.33	-8.745e+04	1.214e+04	1.485e+07	0.0
	2	-1808.75	-1011.03	-1.375e+05	-5.234e+05	3.561e+06	0.0
	5	3841.70	24.33	-8.745e+04	1.214e+04	1.485e+07	0.0
28	2	-1623.31	-1261.59	-1.329e+05	-6.533e+05	3.465e+06	0.0
	7	2878.03	-281.70	-5.549e+04	-1.465e+05	1.239e+07	0.0
	2	-1623.31	-1261.59	-1.329e+05	-6.533e+05	3.465e+06	0.0
	5	4646.62	-158.70	-6.513e+04	-8.315e+04	1.443e+07	0.0
	2	-1623.31	-1261.59	-1.329e+05	-6.533e+05	3.465e+06	0.0
	5	4646.62	-158.70	-6.513e+04	-8.315e+04	1.443e+07	0.0
29	2	-1870.81	-355.01	-1.315e+05	-1.835e+05	3.593e+06	0.0
	7	3065.83	-72.89	-4.771e+04	-3.733e+04	1.229e+07	0.0
	2	-1870.81	-355.01	-1.315e+05	-1.835e+05	3.593e+06	0.0
	5	4910.65	-35.50	-5.579e+04	-1.796e+04	1.430e+07	0.0
	2	-1870.81	-355.01	-1.315e+05	-1.835e+05	3.593e+06	0.0
	5	4910.65	-35.50	-5.579e+04	-1.796e+04	1.430e+07	0.0
30	2	-1966.24	350.40	-1.369e+05	1.819e+05	3.643e+06	0.0
	7	2314.37	21.60	-7.068e+04	1.234e+04	1.268e+07	0.0
	5	4022.29	-24.44	-8.318e+04	-1.118e+04	1.476e+07	0.0
	2	-1966.24	350.40	-1.369e+05	1.819e+05	3.643e+06	0.0
	2	-1966.24	350.40	-1.369e+05	1.819e+05	3.643e+06	0.0
	5	4022.29	-24.44	-8.318e+04	-1.118e+04	1.476e+07	0.0
31	2	-912.98	0.29	-1.421e+05	541.38	3.098e+06	0.0
	7	-499.08	-2.89	-9.392e+04	-817.70	1.414e+07	0.0
	5	438.22	-3.54	-1.109e+05	-1004.22	1.662e+07	0.0
	2	-912.98	0.29	-1.421e+05	541.38	3.098e+06	0.0
	2	-912.98	0.29	-1.421e+05	541.38	3.098e+06	0.0
	5	438.22	-3.54	-1.109e+05	-1004.22	1.662e+07	0.0
32	2	-612.27	816.19	-1.437e+05	4.232e+05	2.942e+06	0.0
	7	-472.36	571.04	-1.027e+05	2.968e+05	1.412e+07	0.0
	7	-472.36	571.04	-1.027e+05	2.968e+05	1.412e+07	0.0
	2	-612.27	816.19	-1.437e+05	4.232e+05	2.942e+06	0.0
	2	-612.27	816.19	-1.437e+05	4.232e+05	2.942e+06	0.0
	5	426.00	575.18	-1.214e+05	2.993e+05	1.662e+07	0.0
33	2	-1542.60	1657.15	-1.388e+05	8.589e+05	3.423e+06	0.0
	7	1854.06	397.29	-8.110e+04	2.079e+05	1.292e+07	0.0
	5	3396.03	236.89	-9.568e+04	1.255e+05	1.508e+07	0.0
	2	-1542.60	1657.15	-1.388e+05	8.589e+05	3.423e+06	0.0
	2	-1542.60	1657.15	-1.388e+05	8.589e+05	3.423e+06	0.0
	5	3396.03	236.89	-9.568e+04	1.255e+05	1.508e+07	0.0
34	2	-1525.43	1492.18	-1.335e+05	7.736e+05	3.414e+06	0.0
	7	2814.36	408.57	-5.874e+04	2.140e+05	1.242e+07	0.0
	5	4552.86	281.17	-6.902e+04	1.489e+05	1.448e+07	0.0
	2	-1525.43	1492.18	-1.335e+05	7.736e+05	3.414e+06	0.0
	2	-1525.43	1492.18	-1.335e+05	7.736e+05	3.414e+06	0.0
	5	4552.86	281.17	-6.902e+04	1.489e+05	1.448e+07	0.0
35	2	-1834.52	596.23	-1.317e+05	3.094e+05	3.574e+06	0.0
	7	3037.82	110.82	-4.884e+04	5.901e+04	1.230e+07	0.0
	5	4871.37	48.80	-5.714e+04	2.739e+04	1.432e+07	0.0
	2	-1834.52	596.23	-1.317e+05	3.094e+05	3.574e+06	0.0
	2	-1834.52	596.23	-1.317e+05	3.094e+05	3.574e+06	0.0
	5	4871.37	48.80	-5.714e+04	2.739e+04	1.432e+07	0.0
36	2	-939.91	2294.33	-1.368e+05	1.189e+06	3.111e+06	0.0
	7	2638.30	1091.50	-7.622e+04	5.677e+05	1.251e+07	0.0
	5	4252.28	995.97	-8.999e+04	5.191e+05	1.463e+07	0.0
	2	-939.91	2294.33	-1.368e+05	1.189e+06	3.111e+06	0.0
	2	-939.91	2294.33	-1.368e+05	1.189e+06	3.111e+06	0.0
	5	4252.28	995.97	-8.999e+04	5.191e+05	1.463e+07	0.0
37	2	-496.23	2714.04	-1.428e+05	1.406e+06	2.881e+06	0.0
	7	1693.24	1681.78	-1.027e+05	8.725e+05	1.300e+07	0.0
	5	3044.72	1646.78	-1.216e+05	8.550e+05	1.526e+07	0.0
	2	-496.23	2714.04	-1.428e+05	1.406e+06	2.881e+06	0.0



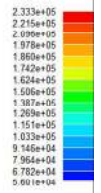
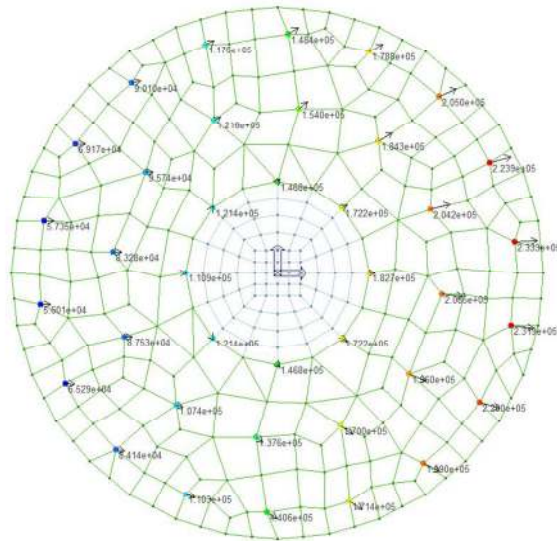
	2	-496.23	2714.04	-1.428e+05	1.406e+06	2.881e+06	0.0
	5	3044.72	1646.78	-1.216e+05	8.550e+05	1.526e+07	0.0
38	2	-96.96	2891.93	-1.411e+05	1.498e+06	2.674e+06	0.0
	7	2769.58	2064.25	-9.918e+04	1.071e+06	1.244e+07	0.0
	7	2769.58	2064.25	-9.918e+04	1.071e+06	1.244e+07	0.0
	2	-96.96	2891.93	-1.411e+05	1.498e+06	2.674e+06	0.0
	2	-96.96	2891.93	-1.411e+05	1.498e+06	2.674e+06	0.0
	5	4292.45	2094.06	-1.175e+05	1.087e+06	1.461e+07	0.0



42\_RIS\_REAZIONI\_003\_Comb. SLE(freq.) 3



42\_RIS\_REAZIONI\_004\_Comb. SLE(perm.) 4



42\_RIS\_REAZIONI\_005\_Comb. SLU FOND 3

# RISULTATI OPERE DI FONDAZIONE

## LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (espresse nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

<b>Nodo</b>	numero del nodo a cui è applicato il plinto
<b>Tipo</b>	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo ( <i>PALO</i> ) 4) plinto su palo 5) plinto su due pali ( <i>PL.2P</i> ) 6) plinto su tre pali ( <i>PL.3P</i> ) 7) plinto su quattro pali ( <i>PL.4P</i> ) 8) plinto rettangolare su cinque pali ( <i>PL.5P.R</i> ) 9) plinto pentagonale su cinque pali ( <i>PL.5P</i> ) 10) plinto su sei pali ( <i>PL.6P</i> )
<b>Palo</b>	numero del palo
<b>Comb.</b>	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
<b>Quota</b>	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione  $F_z$  ( corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

<b>Nodo</b>	numero del nodo a cui è applicato il plinto
<b>Tipo</b>	Codice identificativo del nome assegnato al plinto
<b>area</b>	area dell'impronta del plinto
<b>Wink O</b> <b>Wink V</b>	coefficienti di Winkler (orizzontale e verticale) adottati
<b>Comb</b>	Combinazione di carico in cui si verificano i valori riportati
<b>Pt (P1 P2 P3 P4)</b>	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
				cm	daN	daN	daN	daN cm	daN cm	daN cm
1	PALO D 100.00	1	3	0.0	3589.49	3016.45	-1.241e+05	-1.563e+06	1.041e+07	0.0
		1	4	0.0	2927.66	3023.32	-1.241e+05	-1.566e+06	9.164e+06	0.0
		1	5	0.0	5126.27	3246.16	-1.483e+05	-1.682e+06	1.418e+07	0.0
		1	7	0.0	3580.11	3045.30	-1.248e+05	-1.578e+06	1.202e+07	0.0
2	PALO D 100.00	1	3	0.0	4941.94	3526.65	-1.463e+05	-1.826e+06	9.712e+06	0.0
		1	4	0.0	4240.91	3442.74	-1.435e+05	-1.782e+06	8.484e+06	0.0
		1	5	0.0	6678.78	4008.12	-1.786e+05	-2.075e+06	1.338e+07	0.0
		1	7	0.0	4991.68	3659.63	-1.501e+05	-1.895e+06	1.129e+07	0.0
3	PALO D 100.00	1	2	0.0	3191.26	2591.99	-1.546e+05	-1.342e+06	9.711e+05	0.0
		1	3	0.0	6457.06	3303.83	-1.654e+05	-1.710e+06	8.928e+06	0.0
		1	4	0.0	5680.97	3177.21	-1.602e+05	-1.644e+06	7.739e+06	0.0
		1	5	0.0	8489.66	3865.07	-2.048e+05	-2.000e+06	1.244e+07	0.0
4	PALO D 100.00	1	2	0.0	4030.18	1658.12	-1.575e+05	-8.587e+05	5.369e+05	0.0
		1	3	0.0	7862.12	2289.88	-1.792e+05	-1.185e+06	8.202e+06	0.0
		1	4	0.0	6993.27	2181.92	-1.723e+05	-1.129e+06	7.060e+06	0.0
		1	5	0.0	1.022e+04	2724.26	-2.237e+05	-1.409e+06	1.154e+07	0.0
5	PALO D 100.00	1	2	0.0	4464.69	467.59	-1.590e+05	-2.423e+05	3.121e+05	0.0
		1	3	0.0	8612.21	652.16	-1.861e+05	-3.375e+05	7.814e+06	0.0
		1	4	0.0	7691.61	620.78	-1.783e+05	-3.213e+05	6.699e+06	0.0
		1	5	0.0	1.115e+04	776.08	-2.330e+05	-4.015e+05	1.106e+07	0.0
6	PALO D 100.00	1	2	0.0	4405.19	-793.26	-1.588e+05	4.104e+05	3.429e+05	0.0
		1	3	0.0	8498.97	-1102.32	-1.851e+05	5.699e+05	7.873e+06	0.0
		1	4	0.0	7586.93	-1049.25	-1.774e+05	5.426e+05	6.754e+06	0.0
		1	5	0.0	1.101e+04	-1315.41	-2.317e+05	6.799e+05	1.114e+07	0.0
7	PALO D 100.00	1	2	0.0	4269.07	-485.58	-1.563e+05	2.511e+05	4.139e+05	0.0
		1	3	0.0	7888.21	-703.56	-1.682e+05	3.637e+05	8.190e+06	0.0
		1	4	0.0	7050.15	-666.59	-1.628e+05	3.446e+05	7.033e+06	0.0
		1	5	0.0	1.017e+04	-846.45	-2.082e+05	4.374e+05	1.157e+07	0.0
8	PALO D 100.00	1	2	0.0	3988.66	1384.01	-1.556e+05	-7.167e+05	5.589e+05	0.0
		1	3	0.0	7394.54	1993.16	-1.651e+05	-1.031e+06	8.445e+06	0.0
		1	4	0.0	6591.42	1890.55	-1.601e+05	-9.785e+05	7.270e+06	0.0
		1	5	0.0	9559.48	2388.63	-2.040e+05	-1.236e+06	1.189e+07	0.0
9	PALO D 100.00	1	2	0.0	2739.22	2746.36	-1.525e+05	-1.422e+06	1.206e+06	0.0
		1	3	0.0	5247.20	3517.77	-1.506e+05	-1.821e+06	9.556e+06	0.0
		1	4	0.0	4590.63	3381.68	-1.474e+05	-1.750e+06	8.305e+06	0.0
		1	5	0.0	6901.47	4112.35	-1.841e+05	-2.128e+06	1.326e+07	0.0
10	PALO D 100.00	1	3	0.0	2955.59	3210.90	-1.285e+05	-1.663e+06	1.074e+07	0.0
		1	4	0.0	2402.20	3187.36	-1.281e+05	-1.651e+06	9.437e+06	0.0
		1	5	0.0	4188.89	3520.88	-1.540e+05	-1.823e+06	1.467e+07	0.0
		1	7	0.0	2818.99	3275.17	-1.297e+05	-1.696e+06	1.241e+07	0.0
11	PALO D 100.00	1	2	0.0	221.68	1223.71	-1.477e+05	-6.341e+05	2.510e+06	0.0
		1	3	0.0	589.85	1130.46	-1.235e+05	-5.860e+05	1.197e+07	0.0
		1	4	0.0	277.62	1137.16	-1.238e+05	-5.894e+05	1.054e+07	0.0
		1	5	0.0	1074.60	1206.19	-1.468e+05	-6.253e+05	1.628e+07	0.0
		1	7	0.0	160.30	1136.90	-1.238e+05	-5.893e+05	1.379e+07	0.0
12	PALO D 100.00	1	3	0.0	1529.69	993.07	-1.420e+05	-5.143e+05	1.148e+07	0.0
		1	4	0.0	1204.21	973.20	-1.401e+05	-5.041e+05	1.006e+07	0.0
		1	5	0.0	2121.17	1118.89	-1.722e+05	-5.794e+05	1.574e+07	0.0
		1	7	0.0	1125.38	1025.70	-1.450e+05	-5.312e+05	1.329e+07	0.0
13	PALO D 100.00	1	2	0.0	1529.79	-3.01	-1.532e+05	1246.20	1.833e+06	0.0
		1	3	0.0	2133.80	-4.39	-1.497e+05	1880.49	1.117e+07	0.0
		1	4	0.0	1776.45	-4.11	-1.468e+05	1757.84	9.764e+06	0.0
		1	5	0.0	2847.39	-5.63	-1.827e+05	2393.44	1.537e+07	0.0
14	PALO D 100.00	1	3	0.0	1530.51	-997.93	-1.421e+05	5.160e+05	1.148e+07	0.0
		1	4	0.0	1205.02	-977.67	-1.401e+05	5.056e+05	1.006e+07	0.0
		1	5	0.0	2122.35	-1125.32	-1.722e+05	5.816e+05	1.574e+07	0.0
		1	7	0.0	1126.25	-1031.08	-1.450e+05	5.331e+05	1.329e+07	0.0
15	PALO D 100.00	1	2	0.0	3462.97	-2164.23	-1.543e+05	1.120e+06	8.311e+05	0.0
		1	3	0.0	6416.91	-2974.20	-1.591e+05	1.538e+06	8.951e+06	0.0
		1	4	0.0	5686.49	-2835.71	-1.548e+05	1.467e+06	7.738e+06	0.0
		1	5	0.0	8336.67	-3530.86	-1.958e+05	1.826e+06	1.252e+07	0.0
16	PALO D 100.00	1	2	0.0	3861.97	-1922.79	-1.569e+05	9.952e+05	6.241e+05	0.0
		1	3	0.0	7538.61	-2604.37	-1.764e+05	1.347e+06	8.369e+06	0.0
		1	4	0.0	6694.37	-2486.92	-1.698e+05	1.287e+06	7.215e+06	0.0
		1	5	0.0	9818.49	-3086.39	-2.198e+05	1.596e+06	1.175e+07	0.0
17	PALO D 100.00	1	2	0.0	222.95	-1222.87	-1.477e+05	6.330e+05	2.509e+06	0.0
		1	3	0.0	588.90	-1132.28	-1.235e+05	5.859e+05	1.197e+07	0.0
		1	4	0.0	277.04	-1138.53	-1.238e+05	5.892e+05	1.054e+07	0.0
		1	5	0.0	1072.80	-1209.61	-1.468e+05	6.258e+05	1.629e+07	0.0
		1	7	0.0	159.05	-1139.27	-1.238e+05	5.895e+05	1.379e+07	0.0
18	PALO D 100.00	1	2	0.0	231.30	-3045.33	-1.453e+05	1.577e+06	2.504e+06	0.0
		1	3	0.0	2201.07	-2554.16	-1.165e+05	1.322e+06	1.113e+07	0.0
		1	4	0.0	1643.03	-2611.50	-1.176e+05	1.352e+06	9.831e+06	0.0

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	5	0.0	3384.86	-2624.75	-1.375e+05	1.359e+06	1.508e+07	0.0
		1	7	0.0	2060.32	-2523.79	-1.160e+05	1.307e+06	1.281e+07	0.0
19	PALO D 100.00	1	3	0.0	4010.74	-3569.88	-1.401e+05	1.847e+06	1.020e+07	0.0
		1	4	0.0	3421.87	-3476.46	-1.383e+05	1.799e+06	8.910e+06	0.0
		1	5	0.0	5409.63	-4069.67	-1.699e+05	2.105e+06	1.404e+07	0.0
		1	7	0.0	3924.95	-3713.28	-1.429e+05	1.921e+06	1.184e+07	0.0
20	PALO D 100.00	1	2	0.0	2954.28	-2757.26	-1.537e+05	1.427e+06	1.094e+06	0.0
		1	3	0.0	6125.10	-3428.91	-1.610e+05	1.774e+06	9.100e+06	0.0
		1	4	0.0	5365.15	-3307.51	-1.564e+05	1.711e+06	7.903e+06	0.0
		1	5	0.0	8095.66	-3987.84	-1.988e+05	2.063e+06	1.264e+07	0.0
21	PALO D 100.00	1	3	0.0	4533.74	-3437.40	-1.409e+05	1.779e+06	9.923e+06	0.0
		1	4	0.0	3852.69	-3374.98	-1.388e+05	1.747e+06	8.685e+06	0.0
		1	5	0.0	6191.39	-3860.69	-1.713e+05	1.998e+06	1.363e+07	0.0
		1	7	0.0	4556.35	-3545.99	-1.440e+05	1.835e+06	1.151e+07	0.0
22	PALO D 100.00	1	2	0.0	675.76	-3158.24	-1.446e+05	1.635e+06	2.274e+06	0.0
		1	3	0.0	3318.96	-2851.62	-1.184e+05	1.477e+06	1.055e+07	0.0
		1	4	0.0	2655.37	-2878.84	-1.191e+05	1.491e+06	9.305e+06	0.0
		1	5	0.0	4836.10	-3021.15	-1.405e+05	1.564e+06	1.433e+07	0.0
		1	7	0.0	3308.33	-2857.03	-1.183e+05	1.479e+06	1.216e+07	0.0
23	PALO D 100.00	1	2	0.0	-313.10	-2771.64	-1.399e+05	1.435e+06	2.786e+06	0.0
		1	3	0.0	2700.22	-1907.88	-9.623e+04	9.887e+05	1.087e+07	0.0
		1	4	0.0	1985.91	-2023.21	-9.970e+04	1.048e+06	9.652e+06	0.0
		1	5	0.0	4284.33	-1799.17	-1.102e+05	9.327e+05	1.462e+07	0.0
		1	7	0.0	2737.21	-1806.63	-9.307e+04	9.362e+05	1.246e+07	0.0
24	PALO D 100.00	1	2	0.0	-1114.92	-2115.09	-1.359e+05	1.095e+06	3.201e+06	0.0
		1	3	0.0	2481.44	-1043.93	-7.709e+04	5.417e+05	1.099e+07	0.0
		1	4	0.0	1682.05	-1195.58	-8.296e+04	6.199e+05	9.811e+06	0.0
		1	5	0.0	4243.03	-781.05	-8.402e+04	4.060e+05	1.464e+07	0.0
		1	7	0.0	2606.60	-893.32	-7.125e+04	4.636e+05	1.253e+07	0.0
25	PALO D 100.00	1	2	0.0	-1078.42	-2234.90	-1.406e+05	1.157e+06	3.183e+06	0.0
		1	3	0.0	1715.90	-1093.10	-9.440e+04	5.667e+05	1.138e+07	0.0
		1	4	0.0	1038.40	-1256.08	-9.826e+04	6.510e+05	1.014e+07	0.0
		1	5	0.0	3137.54	-802.92	-1.073e+05	4.168e+05	1.521e+07	0.0
		1	7	0.0	1697.37	-931.93	-9.081e+04	4.833e+05	1.300e+07	0.0
26	PALO D 100.00	1	2	0.0	-611.64	-819.66	-1.437e+05	4.242e+05	2.942e+06	0.0
		1	3	0.0	-63.75	-599.06	-1.049e+05	3.101e+05	1.231e+07	0.0
		1	4	0.0	-398.62	-628.18	-1.076e+05	3.251e+05	1.089e+07	0.0
		1	5	0.0	419.97	-580.72	-1.214e+05	3.006e+05	1.662e+07	0.0
		1	7	0.0	-477.40	-575.72	-1.027e+05	2.979e+05	1.412e+07	0.0
27	PALO D 100.00	1	2	0.0	-1808.75	-1011.03	-1.375e+05	5.234e+05	3.561e+06	0.0
		1	3	0.0	2031.97	-225.31	-7.986e+04	1.170e+05	1.122e+07	0.0
		1	4	0.0	1197.29	-340.76	-8.554e+04	1.766e+05	1.006e+07	0.0
		1	5	0.0	3841.70	24.33	-8.745e+04	-1.214e+04	1.485e+07	0.0
		1	7	0.0	2185.87	-104.50	-7.424e+04	5.435e+04	1.274e+07	0.0
28	PALO D 100.00	1	2	0.0	-1623.31	-1261.59	-1.329e+05	6.533e+05	3.465e+06	0.0
		1	3	0.0	2642.97	-409.77	-6.326e+04	2.129e+05	1.090e+07	0.0
		1	4	0.0	1743.73	-533.19	-7.087e+04	2.766e+05	9.779e+06	0.0
		1	5	0.0	4646.62	-158.70	-6.513e+04	8.315e+04	1.443e+07	0.0
		1	7	0.0	2878.03	-281.70	-5.549e+04	1.465e+05	1.239e+07	0.0
29	PALO D 100.00	1	2	0.0	-1870.81	-355.01	-1.315e+05	1.835e+05	3.593e+06	0.0
		1	3	0.0	2769.07	-109.77	-5.644e+04	5.650e+04	1.084e+07	0.0
		1	4	0.0	1813.89	-145.61	-6.489e+04	7.504e+04	9.744e+06	0.0
		1	5	0.0	4910.65	-35.50	-5.579e+04	1.796e+04	1.430e+07	0.0
		1	7	0.0	3065.83	-72.89	-4.771e+04	3.733e+04	1.229e+07	0.0
30	PALO D 100.00	1	2	0.0	-1966.24	350.40	-1.369e+05	-1.819e+05	3.643e+06	0.0
		1	3	0.0	2120.15	65.48	-7.674e+04	-3.498e+04	1.118e+07	0.0
		1	4	0.0	1248.31	107.19	-8.281e+04	-5.646e+04	1.004e+07	0.0
		1	5	0.0	4022.29	-24.44	-8.318e+04	1.118e+04	1.476e+07	0.0
		1	7	0.0	2314.37	21.60	-7.068e+04	-1.234e+04	1.268e+07	0.0
31	PALO D 100.00	1	2	0.0	-912.98	0.29	-1.421e+05	-541.38	3.098e+06	0.0
		1	3	0.0	-122.52	-2.41	-9.725e+04	628.77	1.234e+07	0.0
		1	4	0.0	-493.09	-2.00	-1.009e+05	461.34	1.094e+07	0.0
		1	5	0.0	438.22	-3.54	-1.109e+05	1004.22	1.662e+07	0.0
		1	7	0.0	-499.08	-2.89	-9.392e+04	817.70	1.414e+07	0.0
32	PALO D 100.00	1	2	0.0	-612.27	816.19	-1.437e+05	-4.232e+05	2.942e+06	0.0
		1	3	0.0	-59.60	594.66	-1.049e+05	-3.090e+05	1.231e+07	0.0
		1	4	0.0	-395.16	623.98	-1.076e+05	-3.241e+05	1.089e+07	0.0
		1	5	0.0	426.00	575.18	-1.214e+05	-2.993e+05	1.662e+07	0.0
		1	7	0.0	-472.36	571.04	-1.027e+05	-2.968e+05	1.412e+07	0.0
33	PALO D 100.00	1	2	0.0	-1542.60	1657.15	-1.388e+05	-8.589e+05	3.423e+06	0.0
		1	3	0.0	1786.75	561.09	-8.588e+04	-2.926e+05	1.135e+07	0.0
		1	4	0.0	1029.55	720.54	-9.081e+04	-3.748e+05	1.015e+07	0.0
		1	5	0.0	3396.03	236.89	-9.568e+04	-1.255e+05	1.508e+07	0.0
		1	7	0.0	1854.06	397.29	-8.110e+04	-2.079e+05	1.292e+07	0.0

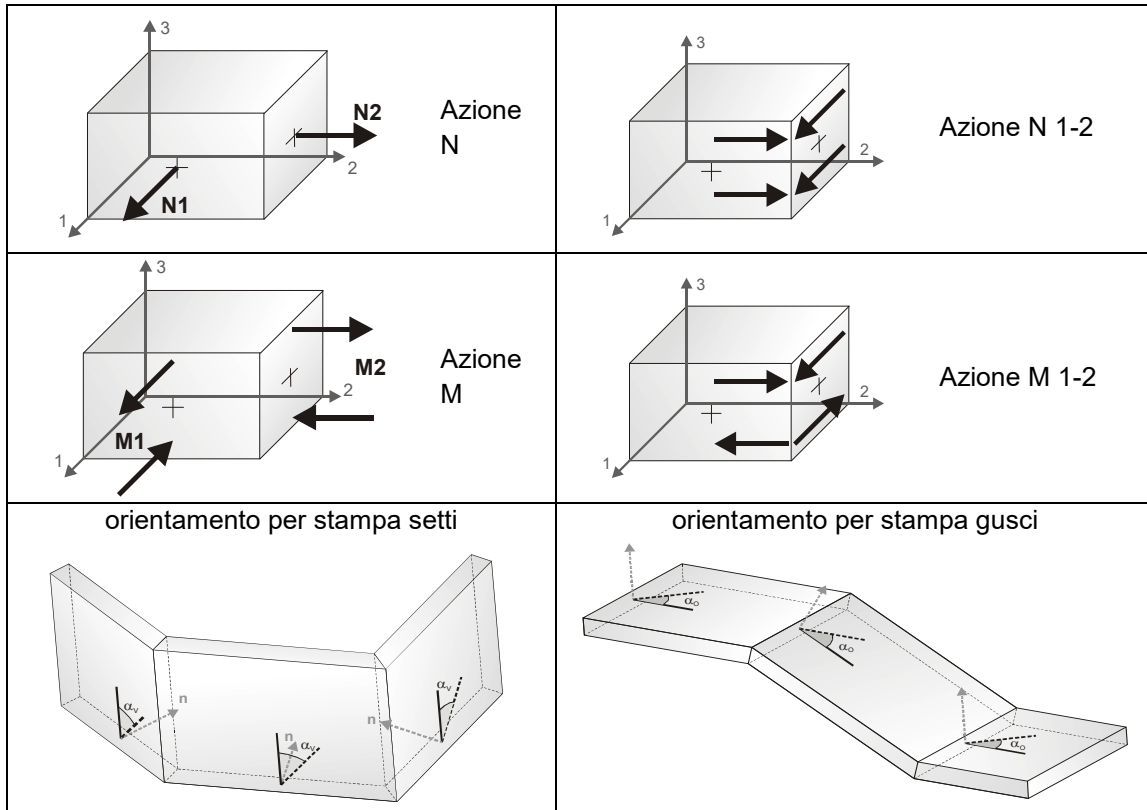
Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
34	PALO D 100.00	1	2	0.0	-1525.43	1492.18	-1.335e+05	-7.736e+05	3.414e+06	0.0
		1	3	0.0	2602.23	548.39	-6.611e+04	-2.863e+05	1.093e+07	0.0
		1	4	0.0	1724.04	684.34	-7.335e+04	-3.564e+05	9.789e+06	0.0
		1	5	0.0	4552.86	281.17	-6.902e+04	-1.489e+05	1.448e+07	0.0
		1	7	0.0	2814.36	408.57	-5.874e+04	-2.140e+05	1.242e+07	0.0
35	PALO D 100.00	1	2	0.0	-1834.52	596.23	-1.317e+05	-3.094e+05	3.574e+06	0.0
		1	3	0.0	2750.15	174.46	-5.742e+04	-9.188e+04	1.085e+07	0.0
		1	4	0.0	1803.25	235.65	-6.576e+04	-1.234e+05	9.749e+06	0.0
		1	5	0.0	4871.37	48.80	-5.714e+04	-2.739e+04	1.432e+07	0.0
		1	7	0.0	3037.82	110.82	-4.884e+04	-5.901e+04	1.230e+07	0.0
36	PALO D 100.00	1	2	0.0	-939.91	2294.33	-1.368e+05	-1.189e+06	3.111e+06	0.0
		1	3	0.0	2531.83	1236.44	-8.145e+04	-6.427e+05	1.096e+07	0.0
		1	4	0.0	1751.22	1384.96	-8.677e+04	-7.193e+05	9.774e+06	0.0
		1	5	0.0	4252.28	995.97	-8.999e+04	-5.191e+05	1.463e+07	0.0
		1	7	0.0	2638.30	1091.50	-7.622e+04	-5.677e+05	1.251e+07	0.0
37	PALO D 100.00	1	2	0.0	-496.23	2714.04	-1.428e+05	-1.406e+06	2.881e+06	0.0
		1	3	0.0	1791.21	1794.49	-1.048e+05	-9.308e+05	1.134e+07	0.0
		1	4	0.0	1188.62	1920.11	-1.074e+05	-9.957e+05	1.007e+07	0.0
		1	5	0.0	3044.72	1646.78	-1.216e+05	-8.550e+05	1.526e+07	0.0
		1	7	0.0	1693.24	1681.78	-1.027e+05	-8.725e+05	1.300e+07	0.0
38	PALO D 100.00	1	2	0.0	-96.96	2891.93	-1.411e+05	-1.498e+06	2.674e+06	0.0
		1	3	0.0	2757.35	2142.93	-1.016e+05	-1.111e+06	1.084e+07	0.0
		1	4	0.0	2066.05	2240.01	-1.044e+05	-1.162e+06	9.610e+06	0.0
		1	5	0.0	4292.45	2094.06	-1.175e+05	-1.087e+06	1.461e+07	0.0
		1	7	0.0	2769.58	2064.25	-9.918e+04	-1.071e+06	1.244e+07	0.0
<b>Nodo</b>					<b>Fx</b>	<b>Fy</b>	<b>Fz</b>	<b>Mx</b>	<b>My</b>	<b>Mz</b>
					-1966.24	-4069.67	-2.330e+05	-2.128e+06	3.121e+05	0.0
					1.115e+04	4112.35	-4.771e+04	2.105e+06	1.662e+07	0.0

# RISULTATI ELEMENTI TIPO SHELL

## LEGENDA RISULTATI ELEMENTI TIPO SHELL

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo shell, è possibile in relazione alle tabelle sottoriportate.

Per ogni elemento, e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.



In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

<b>tensione di Von Mises</b>	(valore riassuntivo del complessivo stato di sollecitazione)
<b>N max</b>	sforzo membranale principale massimo
<b>N min</b>	sforzo membranale principale minimo
<b>M max</b>	sforzo flessionale principale massimo
<b>M min</b>	sforzo flessionale principale minimo
<b>N1</b>	<b>N2</b>
<b>N1-2</b>	<b>M1</b>
<b>M2</b>	<b>M1-2</b>
	sforzi membranali e flessionali in direzione locale 1 e 2 dell'elemento (lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.

In questo caso gli elementi vengono raggruppati in gruppi (M\_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.

I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di  $\alpha_o$  attorno all'asse Z per i gusci e ruotata di  $\alpha_v$  attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se  $\alpha_v$  è zero, l'asse '1-1' rappresenta la verticale e l'asse '2-2' l'orizzontale contenuta nel setto.

Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

<b>N memb.</b>	Azione membranale complessiva agente sulla parete in direzione Z
<b>V memb.</b>	Azione complessiva di taglio agente nel piano del macroelemento
<b>V orto</b>	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
<b>M memb.</b>	Azione flessionale complessiva agente nel piano del macroelemento
<b>M orto</b>	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
<b>T</b>	Azione torsionale complessiva agente nel piano orizzontale

Macro	Tipo	Angolo 1-X (gradi)
1	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	3	11	30.48	-70.27	-16.62	-23.18	-50.27	8660.40	-4.257e+05	-2.245e+05	-1.925e+05	-2.166e+05
1	3	12	1.16	-93.14	-83.58	-8.39	-28.46	-2.607e+05	-6.643e+05	-6.376e+05	-2.874e+05	-1.002e+05
1	3	13	-17.65	-91.71	-91.71	-17.65	0.23	-4.294e+05	-6.879e+05	-6.879e+05	-4.294e+05	1603.76
1	3	14	1.73	-93.31	-83.90	-7.68	28.39	-2.601e+05	-6.643e+05	-6.375e+05	-2.869e+05	1.005e+05
1	3	17	30.21	-70.58	-17.30	-23.07	50.31	9937.70	-4.167e+05	-2.181e+05	-1.887e+05	2.128e+05
1	3	26	49.79	-39.24	43.64	-33.08	22.59	2.660e+05	-1.766e+05	2.176e+05	-1.281e+05	1.382e+05
1	3	31	44.68	-16.43	44.68	-16.43	-0.33	3.100e+05	-2.067e+04	3.100e+05	-2.067e+04	550.23
1	3	32	49.06	-39.07	43.28	-33.29	-21.82	2.721e+05	-1.806e+05	2.243e+05	-1.329e+05	-1.390e+05
1	3	39	-16.39	-17.93	-16.49	-17.83	0.38	-2.590e+05	-3.048e+05	-2.999e+05	-2.639e+05	-1.415e+04
1	3	40	-16.19	-17.29	-16.42	-17.07	0.45	-2.653e+05	-2.993e+05	-2.910e+05	-2.736e+05	-1.460e+04
1	3	41	-16.41	-17.09	-16.49	-17.02	0.21	-2.739e+05	-2.936e+05	-2.912e+05	-2.763e+05	-6425.64
1	3	42	-16.64	-17.77	-16.67	-17.74	0.18	-2.673e+05	-2.999e+05	-2.988e+05	-2.685e+05	-6021.08
1	3	43	-16.50	-17.01	-16.50	-17.01	4.51e-03	-2.773e+05	-2.911e+05	-2.911e+05	-2.773e+05	15.23
1	3	44	-16.70	-17.74	-16.70	-17.74	3.98e-03	-2.698e+05	-2.984e+05	-2.984e+05	-2.698e+05	28.10
1	3	45	-16.42	-17.08	-16.49	-17.02	-0.20	-2.739e+05	-2.936e+05	-2.912e+05	-2.763e+05	6447.45
1	3	46	-16.64	-17.77	-16.67	-17.75	-0.17	-2.673e+05	-3.000e+05	-2.988e+05	-2.684e+05	6063.48
1	3	47	-16.21	-17.28	-16.43	-17.06	-0.43	-2.653e+05	-2.993e+05	-2.910e+05	-2.736e+05	1.460e+04
1	3	48	-16.40	-17.92	-16.49	-17.83	-0.36	-2.589e+05	-3.049e+05	-3.000e+05	-2.638e+05	1.415e+04
1	3	49	-15.85	-16.73	-16.30	-16.28	0.44	-2.667e+05	-2.972e+05	-2.824e+05	-2.814e+05	-1.524e+04
1	3	50	-16.08	-16.50	-16.30	-16.28	0.21	-2.763e+05	-2.899e+05	-2.832e+05	-2.829e+05	-6755.68
1	3	51	-16.28	-16.30	-16.30	-16.28	2.98e-03	-2.835e+05	-2.835e+05	-2.835e+05	-2.835e+05	10.80
1	3	52	-16.09	-16.49	-16.30	-16.28	-0.20	-2.763e+05	-2.899e+05	-2.833e+05	-2.830e+05	6773.12
1	3	53	-15.86	-16.72	-16.31	-16.27	-0.43	-2.667e+05	-2.972e+05	-2.824e+05	-2.814e+05	1.525e+04
1	3	54	-15.29	-16.40	-16.17	-15.51	0.45	-2.628e+05	-2.984e+05	-2.727e+05	-2.885e+05	-1.594e+04
1	3	55	-15.48	-16.18	-16.11	-15.55	0.21	-2.714e+05	-2.918e+05	-2.742e+05	-2.890e+05	-7027.23
1	3	56	-15.55	-16.09	-16.09	-15.55	6.23e-04	-2.748e+05	-2.891e+05	-2.748e+05	-2.891e+05	11.96
1	3	57	-15.48	-16.18	-16.11	-15.55	-0.21	-2.714e+05	-2.918e+05	-2.742e+05	-2.890e+05	7047.13
1	3	58	-15.28	-16.40	-16.19	-15.50	-0.44	-2.628e+05	-2.985e+05	-2.727e+05	-2.886e+05	1.595e+04
1	3	59	-14.64	-16.20	-16.10	-14.73	0.37	-2.536e+05	-3.028e+05	-2.602e+05	-2.962e+05	-1.674e+04
1	3	60	-14.80	-15.96	-15.93	-14.82	0.18	-2.616e+05	-2.966e+05	-2.633e+05	-2.950e+05	-7368.68
1	3	61	-14.84	-15.88	-15.88	-14.84	-1.22e-03	-2.643e+05	-2.948e+05	-2.643e+05	-2.948e+05	18.20
1	3	62	-14.79	-15.97	-15.94	-14.82	-0.18	-2.616e+05	-2.967e+05	-2.633e+05	-2.951e+05	7398.82
1	3	63	-14.63	-16.21	-16.11	-14.73	-0.38	-2.536e+05	-3.029e+05	-2.602e+05	-2.964e+05	1.675e+04
1	3	64	-13.80	-15.68	-15.68	-13.80	2.74e-03	-2.434e+05	-3.045e+05	-2.434e+05	-3.045e+05	51.98
1	3	65	-13.98	-15.66	-15.66	-13.99	-5.41e-02	-2.367e+05	-3.100e+05	-2.393e+05	-3.074e+05	1.353e+04
1	3	66	-13.94	-16.47	-16.47	-13.94	1.89e-02	-2.079e+05	-3.303e+05	-2.079e+05	-3.303e+05	131.50
1	3	67	-12.89	-17.14	-14.82	-15.21	2.12	-1.744e+05	-3.496e+05	-1.818e+05	-3.422e+05	3.516e+04
1	3	68	-14.31	-28.98	-28.98	-14.31	3.60e-02	-2.621e+05	-4.029e+05	-2.621e+05	-4.029e+05	384.31
1	3	69	-11.31	-26.32	-23.73	-13.90	5.68	-1.740e+05	-4.266e+05	-2.057e+05	-3.949e+05	8.366e+04
1	3	70	-6.16	-72.02	-71.33	-6.85	-6.75	-4.032e+05	-5.504e+05	-5.479e+05	-4.056e+05	-1.892e+04
1	3	71	-13.61	-16.69	-16.53	-13.78	-0.69	-2.293e+05	-3.200e+05	-2.395e+05	-3.098e+05	2.864e+04
1	3	72	-10.09	-20.67	-20.67	-10.09	3.36e-02	-1.907e+05	-3.493e+05	-2.214e+05	-3.185e+05	6.270e+04
1	3	73	-5.19	-35.07	-34.17	-6.10	-5.13	-2.332e+05	-3.744e+05	-2.938e+05	-3.139e+05	6.988e+04
1	3	74	-14.43	-17.06	-16.68	-14.80	-0.92	-2.395e+05	-3.166e+05	-2.631e+05	-2.929e+05	3.554e+04
1	3	75	-10.54	-21.85	-20.80	-11.60	-3.29	-2.136e+05	-3.454e+05	-2.686e+05	-2.905e+05	6.498e+04
1	3	76	1.65	-36.86	-32.63	-2.58	-12.04	-2.316e+05	-3.640e+05	-3.503e+05	-2.454e+05	4.032e+04
1	3	77	22.01	-66.46	-43.71	-0.74	-38.67	-2.466e+05	-4.362e+05	-3.929e+05	-2.898e+05	-7.961e+04



1	3	78	-15.39	-17.18	-16.28	-16.29	-0.89	-2.410e+05	-3.166e+05	-2.801e+05	-2.775e+05	3.778e+04
1	3	79	-12.36	-20.21	-15.83	-16.73	-3.90	-2.007e+05	-3.477e+05	-2.756e+05	-2.729e+05	7.347e+04
1	3	80	3.68	-36.93	-14.54	-18.71	-20.20	-2.593e+05	-2.750e+05	-2.658e+05	-2.684e+05	7737.95
1	3	81	-15.60	-18.10	-16.05	-17.66	-0.96	-2.420e+05	-3.146e+05	-2.956e+05	-2.610e+05	3.196e+04
1	3	82	-10.90	-21.81	-12.68	-20.03	-4.03	-2.089e+05	-3.266e+05	-2.861e+05	-2.494e+05	5.586e+04
1	3	83	5.29	-33.48	-2.14	-26.06	-15.26	-1.977e+05	-2.870e+05	-2.036e+05	-2.810e+05	2.226e+04
1	3	84	42.10	-48.27	17.26	-23.44	-40.34	-4.019e+04	-2.668e+05	-1.476e+05	-1.594e+05	-1.132e+05
1	3	85	-16.01	-18.85	-16.07	-18.79	-0.40	-2.358e+05	-3.210e+05	-3.137e+05	-2.431e+05	2.392e+04
1	3	86	-11.80	-22.87	-12.04	-22.62	1.62	-1.978e+05	-3.473e+05	-3.213e+05	-2.237e+05	5.658e+04
1	3	87	0.31	-27.87	0.31	-27.87	-5.13e-02	-1.515e+05	-2.925e+05	-2.325e+05	-2.116e+05	6.972e+04
1	3	88	-16.83	-18.71	-16.83	-18.70	-0.11	-2.493e+05	-3.159e+05	-3.144e+05	-2.508e+05	9981.69
1	3	89	-16.03	-19.00	-16.84	-18.20	1.32	-2.073e+05	-3.620e+05	-3.575e+05	-2.118e+05	2.604e+04
1	3	90	-4.52	-21.09	-4.92	-20.69	2.54	-1.355e+05	-3.425e+05	-3.194e+05	-1.586e+05	6.520e+04
1	3	91	47.04	-18.98	46.28	-18.22	-7.05	1.081e+05	-1.370e+05	9.245e+04	-1.214e+05	-5.997e+04
1	3	92	-16.96	-18.70	-16.96	-18.70	9.29e-04	-2.550e+05	-3.111e+05	-3.111e+05	-2.550e+05	78.41
1	3	93	-17.09	-17.65	-17.10	-17.65	2.12e-02	-2.195e+05	-3.370e+05	-3.370e+05	-2.195e+05	129.12
1	3	94	-8.63	-14.70	-8.63	-14.70	6.39e-02	-1.253e+05	-2.750e+05	-2.750e+05	-1.253e+05	-113.94
1	3	95	-16.85	-18.70	-16.85	-18.69	0.11	-2.495e+05	-3.157e+05	-3.142e+05	-2.510e+05	-9887.63
1	3	96	-16.00	-19.08	-16.86	-18.23	-1.38	-2.076e+05	-3.614e+05	-3.570e+05	-2.120e+05	-2.583e+04
1	3	97	-4.42	-21.39	-4.84	-20.98	-2.63	-1.359e+05	-3.409e+05	-3.380e+05	-2.113e+05	-6.958e+04
1	3	98	47.71	-19.35	46.99	-18.63	6.92	1.122e+05	-1.372e+05	9.802e+04	-1.231e+05	5.771e+04
1	3	99	-16.02	-18.83	-16.10	-18.76	0.45	-2.360e+05	-3.209e+05	-3.135e+05	-2.434e+05	-2.397e+04
1	3	100	-11.92	-22.72	-12.14	-22.49	-1.53	-1.981e+05	-3.471e+05	-3.210e+05	-2.242e+05	-5.669e+04
1	3	101	-4.03e-02	-27.40	-4.32e-02	-27.40	0.58	-1.513e+05	-2.930e+05	-2.930e+05	-2.113e+05	-6.958e+04
1	3	102	-15.55	-18.14	-16.03	-17.67	1.00	-2.420e+05	-3.147e+05	-2.956e+05	-2.611e+05	-3.202e+04
1	3	103	-10.77	-21.91	-12.58	-20.09	4.12	-2.089e+05	-3.270e+05	-2.862e+05	-2.497e+05	-5.610e+04
1	3	104	5.47	-33.52	-1.77	-26.28	15.16	-1.974e+05	-2.888e+05	-2.034e+05	-2.828e+05	-2.258e+04
1	3	105	41.35	-47.99	17.17	-23.80	39.70	-3.944e+04	-2.752e+05	-1.454e+05	-1.693e+05	1.173e+05
1	3	106	-15.39	-17.19	-16.25	-16.33	0.90	-2.411e+05	-3.166e+05	-3.101e+05	-2.177e+05	-3.774e+04
1	3	107	-12.40	-20.21	-15.81	-16.80	3.87	-2.009e+05	-3.475e+05	-2.758e+05	-2.726e+05	-7.327e+04
1	3	108	3.51	-36.88	-14.66	-18.71	20.10	-2.593e+05	-2.742e+05	-2.666e+05	-2.670e+05	-7457.69
1	3	109	-14.45	-17.04	-16.67	-14.82	0.91	-2.394e+05	-3.164e+05	-2.631e+05	-2.928e+05	-3.551e+04
1	3	110	-10.55	-21.84	-20.78	-11.61	3.30	-2.136e+05	-3.453e+05	-2.685e+05	-2.904e+05	-6.489e+04
1	3	111	1.72	-36.92	-32.60	-2.60	12.18	-2.326e+05	-3.636e+05	-3.499e+05	-2.463e+05	-4.005e+04
1	3	112	22.28	-66.80	-43.38	-1.14	39.21	-2.460e+05	-4.466e+05	-4.034e+05	-2.891e+05	8.242e+04
1	3	113	-13.63	-16.66	-16.51	-13.79	0.66	-2.292e+05	-3.197e+05	-2.394e+05	-3.095e+05	-2.864e+04
1	3	114	-10.10	-20.62	-20.61	-10.10	-7.71e-02	-1.906e+05	-3.485e+05	-2.215e+05	-3.177e+05	-6.265e+04
1	3	115	-5.20	-34.95	-34.06	-6.09	5.06	-2.333e+05	-3.720e+05	-2.944e+05	-3.109e+05	-6.886e+04
1	3	116	-13.97	-15.67	-15.67	-13.97	4.71e-02	-2.367e+05	-3.098e+05	-2.393e+05	-3.072e+05	-1.346e+04
1	3	117	-12.87	-17.15	-14.85	-15.17	-2.13	-1.744e+05	-3.491e+05	-1.817e+05	-3.418e+05	-3.499e+04
1	3	118	-11.24	-26.40	-23.80	-13.84	-5.71	-1.735e+05	-4.263e+05	-2.052e+05	-3.945e+05	-8.381e+04
1	3	119	-6.76	-71.68	-71.03	-7.40	6.45	-4.033e+05	-5.455e+05	-5.424e+05	-4.065e+05	2.102e+04
1	4	11	19.89	-59.94	-16.73	-23.32	-39.78	-1.893e+04	-4.007e+05	-2.260e+05	-1.936e+05	-1.902e+05
1	4	12	-3.25	-78.57	-70.49	-11.33	-23.30	-2.566e+05	-6.088e+05	-5.866e+05	-2.788e+05	-8.556e+04
1	4	13	-17.71	-77.94	-77.94	-17.71	0.21	-4.058e+05	-6.280e+05	-6.280e+05	-4.058e+05	1514.90
1	4	14	-2.76	-78.73	-70.82	-10.68	23.21	-2.559e+05	-6.088e+05	-5.865e+05	-2.782e+05	8.593e+04
1	4	17	19.50	-60.24	-17.55	-23.18	39.77	-1.702e+04	-3.923e+05	-2.195e+05	-1.898e+05	1.870e+05
1	4	26	34.96	-35.11	30.29	-30.44	17.48	2.082e+05	-1.832e+05	1.643e+05	-1.393e+05	1.236e+05
1	4	31	30.62	-16.60	30.62	-16.60	-0.31	2.478e+05	-4.702e+04	2.478e+05	-4.702e+04	638.79
1	4	32	34.22	-34.78	29.96	-30.53	-16.60	2.130e+05	-1.872e+05	1.695e+05	-1.437e+05	-1.246e+05
1	4	39	-16.45	-17.61	-16.52	-17.54	0.27	-2.633e+05	-3.032e+05	-2.991e+05	-2.674e+05	-1.223e+04
1	4	40	-16.31	-17.13	-16.48	-16.97	0.33	-2.689e+05	-2.986e+05	-2.915e+05	-2.761e+05	-1.270e+04
1	4	41	-16.48	-16.98	-16.53	-16.93	0.16	-2.766e+05	-2.938e+05	-2.917e+05	-2.786e+05	-5586.83
1	4	42	-16.64	-17.49	-16.66	-17.47	0.13	-2.707e+05	-2.991e+05	-2.982e+05	-2.717e+05	-5188.34
1	4	43	-16.55	-16.92	-16.55	-16.92	5.60e-03	-2.796e+05	-2.917e+05	-2.917e+05	-2.796e+05	17.48
1	4	44	-16.69	-17.47	-16.69	-17.47	5.12e-03	-2.730e+05	-2.979e+05	-2.979e+05	-2.730e+05	27.80
1	4	45	-16.49	-16.97	-16.53	-16.93	-0.14	-2.766e+05	-2.938e+05	-2.917e+05	-2.786e+05	5613.35
1	4	46	-16.64	-17.49	-16.66	-17.47	-0.12	-2.706e+05	-2.992e+05	-2.982e+05	-2.716e+05	5231.12
1	4	47	-16.33	-17.11	-16.48	-16.96	-0.31	-2.689e+05	-2.986e+05	-2.915e+05	-2.761e+05	1.271e+04
1	4	48	-16.45	-17.60	-16.51	-17.55	-0.25	-2.632e+05	-3.033e+05	-2.991e+05	-2.673e+05	1.224e+04
1	4	49	-16.06	-16.72	-16.40	-16.38	0.33	-2.702e+05	-2.969e+05	-2.840e+05	-2.830e+05	-1.334e+04
1	4	50	-16.23	-16.54	-16.39	-16.38	0.16	-2.788e+05	-2.906e+05	-2.848e+05	-2.845e+05	-5910.34
1	4	51	-16.38	-16.40	-16.40	-16.38	4.31e-03	-2.850e+05	-2.851e+05	-2.851e+05	-2.850e+05	15.34
1	4	52	-16.24	-16.53	-16.40	-16.38	-0.15	-2.788e+05	-2.906e+05	-2.849e+05	-2.845e+05	5936.63
1	4	53	-16.07	-16.70	-16.41	-16.37	-0.32	-2.701e+05	-2.969e+05	-2.840e+05	-2.830e+05	1.336e+04
1	4	54	-15.64	-16.47	-16.31	-15.80	0.33	-2.667e+05	-2.979e+05	-2.754e+05	-2.892e+05	-1.403e+04
1	4	55	-15.78	-16.31	-16.26	-15.83	0.16	-2.744e+05	-2.923e+05	-2.768e+05	-2.898e+05	-6181.69
1	4	56	-15.83	-16.25	-16.25	-15.83	2.29e-03	-2.774e+05	-2.899e+05	-2.774e+05	-2.899e+05	18.65
1	4	57	-15.78	-16.31	-16.26	-15.83	-0.15	-2.744e+05	-2.923e+05	-2.768e+05	-2.898e+05	6214.89
1	4	58	-15.64	-16.47	-16.32	-15.79	-0.32	-2.667e+05	-2.980e+05	-2.754e+05	-2.893e+05	1.406e+04
1	4	59	-15.15	-16.33	-16.27	-15.21	-0.27	-2.584e+05	-3.017e+05	-2.643e+05	-2.958e+05	-1.480e+04
1	4	60	-15.27	-16.15	-16.13	-15.29	0.13	-2.656e+05	-2.964e+05	-2.671e+05	-2.949e+05	-6523.21
1	4	61	-15.30	-16.09	-16.09	-15.30	7.27e-04	-2.680e+05	-2.948e+05	-2.680e+05	-2.948e+05	26.65
1	4	62	-15.27	-16.16	-16.14	-15.29	-0.13	-2.656e+05	-2.965e+05	-2.671e+05	-2.950e+05	6570.47
1	4	63	-15.14	-16.34	-16.28	-15.21	-0.27	-2.584e+05	-3.018e+05	-2.643e+05	-2.959e+05	1.484e+04
1	4	64	-14.53	-15.94	-15.94	-14.53	4.13e-03	-2.493e+05	-3.031e+05	-2.493e+05	-3.031e+05	60.42
1	4	65	-14.67	-15.93	-15.93	-14.67	-2.76e-02	-2.432e+05	-3.079e+05	-2.456e+05	-3.056e+05	1.208e+04

1	4	66	-14.70	-16.61	-16.61	-14.70	1.86e-02	-2.176e+05	-3.250e+05	-2.176e+05	-3.250e+05	134.64
1	4	67	-13.75	-17.27	-15.25	-15.77	1.74	-1.876e+05	-3.425e+05	-1.942e+05	-3.358e+05	3.141e+04
1	4	68	-14.95	-26.87	-26.87	-14.95	3.55e-02	-2.647e+05	-3.873e+05	-2.647e+05	-3.873e+05	360.89
1	4	69	-12.58	-24.71	-22.38	-14.91	4.78	-1.859e+05	-4.103e+05	-2.143e+05	-3.820e+05	7.457e+04
1	4	70	-7.96	-61.61	-61.08	-8.50	-5.33	-3.880e+05	-5.110e+05	-5.094e+05	-3.896e+05	-1.405e+04
1	4	71	-14.35	-16.76	-16.65	-14.46	-0.51	-2.366e+05	-3.164e+05	-2.457e+05	-3.073e+05	2.537e+04
1	4	72	-11.47	-20.06	-20.06	-11.47	3.59e-02	-2.020e+05	-3.415e+05	-2.292e+05	-3.143e+05	5.528e+04
1	4	73	-7.48	-31.86	-31.07	-8.27	-4.32	-2.387e+05	-3.622e+05	-2.917e+05	-3.092e+05	6.112e+04
1	4	74	-14.99	-16.99	-16.72	-15.26	-0.67	-2.457e+05	-3.135e+05	-2.667e+05	-2.925e+05	3.135e+04
1	4	75	-11.91	-20.83	-20.07	-12.67	-2.49	-2.222e+05	-3.386e+05	-2.713e+05	-2.895e+05	5.748e+04
1	4	76	-1.99	-32.96	-29.77	-5.18	-9.41	-2.367e+05	-3.554e+05	-3.429e+05	-2.492e+05	3.641e+04
1	4	77	15.41	-57.13	-38.79	-2.93	-31.53	-2.489e+05	-4.138e+05	-3.790e+05	-2.838e+05	6.733e+04
1	4	78	-15.70	-17.06	-16.37	-16.39	-0.68	-2.473e+05	-3.135e+05	-2.817e+05	-2.791e+05	3.310e+04
1	4	79	-13.19	-19.57	-15.93	-16.84	-3.16	-2.114e+05	-3.402e+05	-2.771e+05	-2.745e+05	6.438e+04
1	4	80	-0.22	-33.23	-14.64	-18.81	-16.37	-2.617e+05	-2.756e+05	-2.674e+05	-2.700e+05	6829.14
1	4	81	-15.87	-17.73	-16.20	-17.39	-0.71	-2.481e+05	-3.116e+05	-2.951e+05	-2.645e+05	2.777e+04
1	4	82	-12.11	-20.64	-13.60	-19.15	-3.24	-2.189e+05	-3.211e+05	-2.866e+05	-2.535e+05	4.834e+04
1	4	83	1.24	-30.05	-5.17	-23.64	-12.63	-2.095e+05	-2.851e+05	-2.142e+05	-2.804e+05	1.822e+04
1	4	84	32.54	-41.82	12.17	-21.45	-33.16	-6.466e+04	-2.675e+05	-1.636e+05	-1.686e+05	-1.014e+05
1	4	85	-16.12	-18.32	-16.14	-18.30	-0.23	-2.425e+05	-3.169e+05	-3.482e+05	-2.488e+05	2.028e+04
1	4	86	-12.55	-21.73	-12.85	-21.43	1.63	-2.087e+05	-3.391e+05	-3.167e+05	-2.311e+05	4.918e+04
1	4	87	-2.97	-25.90	-3.00	-25.87	0.78	-1.668e+05	-2.904e+05	-2.378e+05	-2.194e+05	6.107e+04
1	4	88	-16.75	-18.21	-16.76	-18.20	-8.68e-02	-2.546e+05	-3.126e+05	-3.113e+05	-2.559e+05	8531.53
1	4	89	-16.09	-18.34	-16.60	-17.83	0.94	-2.176e+05	-3.520e+05	-3.520e+05	-2.214e+05	2.228e+04
1	4	90	-6.25	-20.08	-6.45	-19.89	1.62	-1.550e+05	-3.337e+05	-3.140e+05	-1.747e+05	5.602e+04
1	4	91	36.50	-17.38	35.89	-16.77	-5.69	6.649e+04	-1.554e+05	5.181e+04	-1.407e+05	-5.514e+04
1	4	92	-16.89	-18.15	-16.89	-18.15	3.89e-03	-2.597e+05	-3.085e+05	-3.085e+05	-2.597e+05	72.63
1	4	93	-17.07	-17.16	-17.15	-17.08	2.83e-02	-2.279e+05	-3.305e+05	-3.305e+05	-2.279e+05	122.45
1	4	94	-10.96	-14.22	-10.96	-14.22	6.79e-02	-1.441e+05	-2.755e+05	-2.755e+05	-1.441e+05	-63.03
1	4	95	-16.77	-18.20	-16.77	-18.19	8.52e-02	-2.548e+05	-3.124e+05	-3.111e+05	-2.560e+05	-8442.43
1	4	96	-16.06	-18.42	-16.61	-17.87	-1.00	-2.179e+05	-3.515e+05	-3.477e+05	-2.216e+05	-2.208e+04
1	4	97	-6.13	-20.40	-6.33	-20.19	-1.70	-1.554e+05	-3.323e+05	-3.128e+05	-1.750e+05	-5.548e+04
1	4	98	37.20	-17.63	36.65	-17.08	5.47	6.948e+04	-1.556e+05	5.607e+04	-1.422e+05	5.329e+04
1	4	99	-16.14	-18.30	-16.17	-18.27	0.27	-2.427e+05	-3.168e+05	-3.105e+05	-2.491e+05	-2.070e+04
1	4	100	-12.68	-21.58	-12.96	-21.30	-1.55	-2.090e+05	-3.390e+05	-3.164e+05	-2.316e+05	-4.924e+04
1	4	101	-3.37	-25.42	-3.38	-25.40	-0.55	-1.667e+05	-2.906e+05	-2.382e+05	-2.191e+05	-6.119e+04
1	4	102	-15.82	-17.77	-16.19	-17.41	0.76	-2.481e+05	-3.116e+05	-2.952e+05	-2.646e+05	-2.783e+04
1	4	103	-11.98	-20.73	-13.51	-19.20	3.33	-2.189e+05	-3.215e+05	-2.867e+05	-2.538e+05	-4.859e+04
1	4	104	1.42	-30.08	-4.81	-23.84	12.55	-2.092e+05	-2.869e+05	-2.140e+05	-2.822e+05	-1.861e+04
1	4	105	31.87	-41.53	12.08	-21.74	32.57	-6.481e+04	-2.756e+05	-1.624e+05	-1.781e+05	1.051e+05
1	4	106	-15.69	-17.08	-16.35	-16.42	0.69	-2.473e+05	-3.135e+05	-2.817e+05	-2.791e+05	-3.306e+04
1	4	107	-13.23	-19.58	-15.90	-16.90	3.13	-2.116e+05	-3.400e+05	-2.774e+05	-2.742e+05	-6.422e+04
1	4	108	-0.37	-33.20	-14.73	-18.84	16.28	-2.617e+05	-2.749e+05	-2.680e+05	-2.686e+05	-6591.99
1	4	109	-15.01	-16.97	-16.71	-15.27	0.67	-2.457e+05	-3.134e+05	-2.667e+05	-2.924e+05	-3.131e+04
1	4	110	-11.92	-20.83	-20.06	-12.68	2.50	-2.223e+05	-3.384e+05	-2.712e+05	-2.895e+05	-5.737e+04
1	4	111	-1.90	-33.04	-29.77	-5.17	9.55	-2.377e+05	-3.550e+05	-3.426e+05	-2.501e+05	-3.610e+04
1	4	112	15.71	-57.33	-38.30	-3.32	32.06	-2.490e+05	-4.234e+05	-3.887e+05	-2.837e+05	6.966e+04
1	4	113	-14.36	-16.74	-16.63	-14.47	0.49	-2.365e+05	-3.161e+05	-2.456e+05	-3.070e+05	-2.535e+04
1	4	114	-11.48	-20.01	-20.01	-11.48	-6.77e-02	-2.019e+05	-3.409e+05	-2.293e+05	-3.135e+05	-5.522e+04
1	4	115	-7.51	-31.74	-30.97	-8.28	4.25	-2.388e+05	-3.601e+05	-2.923e+05	-3.065e+05	-6.024e+04
1	4	116	-14.66	-15.94	-15.94	-14.66	2.52e-02	-2.432e+05	-3.077e+05	-2.456e+05	-3.053e+05	-1.200e+04
1	4	117	-13.74	-17.27	-15.28	-15.73	-1.75	-1.876e+05	-3.420e+05	-1.942e+05	-3.354e+05	-3.124e+04
1	4	118	-12.52	-24.78	-22.45	-14.85	-4.81	-1.855e+05	-4.100e+05	-2.139e+05	-3.816e+05	-7.466e+04
1	4	119	-8.48	-61.31	-60.82	-8.97	5.09	-3.881e+05	-5.065e+05	-5.043e+05	-3.903e+05	1.593e+04
1	5	11	52.32	-94.78	-17.70	-24.76	-73.46	7.661e+04	-5.148e+05	-2.363e+05	-2.019e+05	-2.952e+05
1	5	12	9.24	-127.24	-114.14	-3.85	-40.20	-2.879e+05	-8.429e+05	-8.039e+05	-3.269e+05	-1.419e+05
1	5	13	-18.99	-124.39	-124.39	-18.99	0.31	-5.157e+05	-8.784e+05	-8.784e+05	-5.157e+05	1998.99
1	5	14	9.99	-127.42	-114.47	-2.96	40.15	-2.875e+05	-8.429e+05	-8.037e+05	-3.267e+05	1.422e+05
1	5	17	52.16	-95.12	-18.32	-24.64	73.58	7.657e+04	-5.039e+05	-2.293e+05	-1.980e+05	2.898e+05
1	5	26	81.05	-49.87	71.58	-40.41	33.91	4.248e+05	-1.725e+05	3.618e+05	-1.094e+05	1.836e+05
1	5	31	74.18	-17.36	74.17	-17.36	-0.41	4.823e+05	4.157e+04	4.823e+05	4.157e+04	501.54
1	5	32	80.19	-49.85	71.11	-40.77	-33.15	4.341e+05	-1.769e+05	3.726e+05	-1.154e+05	-1.838e+05
1	5	39	-17.56	-19.86	-17.72	-19.70	0.58	-2.719e+05	-3.346e+05	-3.279e+05	-2.786e+05	-1.943e+04
1	5	40	-17.24	-18.90	-17.59	-18.55	0.68	-2.804e+05	-3.269e+05	-3.156e+05	-2.918e+05	-2.000e+04
1	5	41	-17.58	-18.60	-17.69	-18.48	0.32	-2.921e+05	-3.190e+05	-3.157e+05	-2.954e+05	-8797.01
1	5	42	-17.92	-19.62	-17.97	-19.58	0.27	-2.832e+05	-3.278e+05	-3.263e+05	-2.848e+05	-8273.55
1	5	43	-17.71	-18.48	-17.71	-18.48	4.24e-03	-2.967e+05	-3.157e+05	-3.157e+05	-2.967e+05	26.89
1	5	44	-18.02	-19.57	-18.02	-19.57	3.58e-03	-2.866e+05	-3.258e+05	-3.258e+05	-2.866e+05	46.35
1	5	45	-17.59	-18.59	-17.69	-18.48	-0.31	-2.921e+05	-3.191e+05	-3.158e+05	-2.954e+05	8839.39
1	5	46	-17.92	-19.63	-17.96	-19.58	-0.26	-2.831e+05	-3.279e+05	-3.263e+05	-2.847e+05	8347.13
1	5	47	-17.26	-18.88	-17.60	-18.55	-0.66	-2.804e+05	-3.270e+05	-3.156e+05	-2.917e+05	2.001e+04
1	5	48	-17.57	-19.85	-17.71	-19.71	-0.56	-2.717e+05	-3.347e+05	-3.280e+05	-2.785e+05	1.945e+04
1	5	49	-16.72	-18.06	-17.40	-17.38	0.67	-2.823e+05	-3.239e+05	-3.038e+05	-3.024e+05	-2.081e+04
1	5	50	-17.07	-17.71	-17.40	-17.38	0.32	-2.954e+05	-3.139e+05	-3.049e+05	-3.044e+05	-9223.76
1	5	51	-17.37	-17.40	-17.40	-17.38	2.14e-03	-3.051e+05	-3.052e+05	-3.052e+05	-3.051e+05	18.89
1	5	52	-17.07	-17.70	-17.40	-17.37	-0.31	-2.954e+05	-3.139e+05	-3.049e+05	-3.044e+05	9256.26
1	5	53	-16.72	-18.05	-17.41	-17.36	-0.66	-2.823e+05	-3.240e+05	-3.038e+05	-3.024e+05	2.083e+04

1	5	54	-15.87	-17.54	-17.20	-16.21	0.68	-2.771e+05	-3.256e+05	-2.905e+05	-3.121e+05	-2.171e+04
1	5	55	-16.16	-17.21	-17.10	-16.27	0.32	-2.887e+05	-3.165e+05	-2.925e+05	-3.127e+05	-9570.57
1	5	56	-16.27	-17.09	-17.09	-16.27	-1.01e-03	-2.933e+05	-3.128e+05	-2.933e+05	-3.128e+05	18.76
1	5	57	-16.16	-17.22	-17.11	-16.26	-0.32	-2.887e+05	-3.166e+05	-2.925e+05	-3.127e+05	9602.41
1	5	58	-15.86	-17.56	-17.22	-16.20	-0.68	-2.771e+05	-3.257e+05	-2.905e+05	-3.122e+05	2.173e+04
1	5	59	-14.89	-17.23	-17.08	-15.04	0.57	-2.647e+05	-3.316e+05	-2.736e+05	-3.227e+05	-2.274e+04
1	5	60	-15.13	-16.88	-16.83	-15.17	0.27	-2.755e+05	-3.231e+05	-2.777e+05	-3.209e+05	-1.001e+04
1	5	61	-15.19	-16.76	-16.76	-15.19	-3.36e-03	-2.790e+05	-3.206e+05	-2.790e+05	-3.206e+05	26.15
1	5	62	-15.12	-16.89	-16.84	-15.17	-0.28	-2.755e+05	-3.233e+05	-2.777e+05	-3.210e+05	1.005e+04
1	5	63	-14.88	-17.25	-17.09	-15.04	-0.59	-2.647e+05	-3.318e+05	-2.736e+05	-3.229e+05	2.277e+04
1	5	64	-13.61	-16.45	-16.45	-13.61	2.35e-03	-2.508e+05	-3.342e+05	-2.508e+05	-3.342e+05	71.29
1	5	65	-13.88	-16.43	-16.43	-13.88	-0.10	-2.418e+05	-3.416e+05	-2.452e+05	-3.381e+05	1.829e+04
1	5	66	-13.82	-17.48	-17.48	-13.82	2.28e-02	-2.023e+05	-3.697e+05	-2.023e+05	-3.697e+05	177.53
1	5	67	-12.41	-18.34	-15.28	-15.47	2.96	-1.574e+05	-3.954e+05	-1.672e+05	-3.855e+05	4.739e+04
1	5	68	-14.60	-35.04	-35.04	-14.60	3.80e-02	-2.757e+05	-4.703e+05	-2.757e+05	-4.703e+05	510.02
1	5	69	-10.02	-31.68	-28.43	-13.27	7.73	-1.573e+05	-4.996e+05	-1.999e+05	-3.484e+05	9.519e+05
1	5	70	-3.54	-98.15	-97.10	-4.59	-9.90	-4.720e+05	-6.844e+05	-6.799e+05	-4.766e+05	-3.062e+04
1	5	71	-13.40	-17.90	-17.66	-13.64	-1.02	-2.317e+05	-3.553e+05	-2.455e+05	-3.415e+05	3.891e+04
1	5	72	-8.33	-23.55	-23.55	-8.33	0.15	-1.796e+05	-3.956e+05	-2.213e+05	-3.538e+05	8.529e+04
1	5	73	-1.34	-43.93	-42.81	-2.46	-6.82	-2.377e+05	-4.314e+05	-3.991e+05	-3.484e+05	9.586e+04
1	5	74	-14.57	-18.52	-17.93	-15.16	-1.41	-2.455e+05	-3.505e+05	-2.776e+05	-3.184e+05	4.837e+04
1	5	75	-8.92	-25.46	-23.78	-10.59	-5.00	-2.107e+05	-3.898e+05	-2.850e+05	-3.155e+05	8.818e+04
1	5	76	8.53	-47.17	-40.60	1.97	-17.96	-2.355e+05	-4.143e+05	-3.961e+05	-2.537e+05	5.405e+04
1	5	77	36.41	-90.11	-57.15	3.45	-55.53	-2.616e+05	-5.231e+05	-4.580e+05	-3.267e+05	-1.130e+05
1	5	78	-16.05	-18.71	-17.39	-17.37	-1.33	-2.474e+05	-3.507e+05	-3.008e+05	-2.973e+05	5.160e+04
1	5	79	-11.74	-23.01	-16.90	-17.85	-5.62	-1.926e+05	-3.933e+05	-2.950e+05	-2.910e+05	1.003e+05
1	5	80	11.42	-46.89	-15.50	-19.97	-29.07	-2.732e+05	-2.941e+05	-2.828e+05	-2.845e+05	1.046e+04
1	5	81	-16.35	-20.14	-17.02	-19.47	-1.44	-2.487e+05	-3.482e+05	-3.220e+05	-2.749e+05	4.384e+04
1	5	82	-9.52	-25.59	-11.98	-23.14	-5.78	-2.035e+05	-3.651e+05	-3.091e+05	-2.595e+05	7.692e+04
1	5	83	13.41	-42.46	3.42	-32.47	-21.41	-1.873e+05	-3.114e+05	-1.961e+05	-3.026e+05	3.183e+04
1	5	84	64.23	-64.43	28.91	-29.10	-57.42	1.386e+04	-2.884e+05	-1.242e+05	-1.503e+05	-1.506e+05
1	5	85	-17.02	-21.24	-17.14	-21.12	-0.70	-2.404e+05	-3.571e+05	-3.469e+05	-2.506e+05	3.288e+04
1	5	86	-11.16	-26.82	-11.38	-26.59	1.87	-1.889e+05	-3.935e+05	-3.939e+05	-2.246e+05	7.760e+04
1	5	87	6.72	-33.90	6.67	-33.86	-1.38	-1.273e+05	-3.189e+05	-2.373e+05	-2.089e+05	9.476e+04
1	5	88	-18.25	-21.01	-18.26	-21.00	-0.16	-2.588e+05	-3.500e+05	-3.478e+05	-2.609e+05	1.381e+04
1	5	89	-17.07	-21.62	-18.50	-20.19	2.11	-2.013e+05	-4.136e+05	-4.073e+05	-2.076e+05	3.612e+04
1	5	90	-1.28	-24.49	-2.14	-23.62	4.39	-1.025e+05	-3.873e+05	-3.551e+05	-1.346e+05	9.019e+04
1	5	91	71.41	-23.14	70.31	-22.04	-10.14	2.138e+05	-1.079e+05	1.941e+05	-8.822e+04	-7.705e+04
1	5	92	-18.40	-21.06	-18.40	-21.06	-2.60e-03	-2.666e+05	-3.433e+05	-3.433e+05	-2.666e+05	119.42
1	5	93	-18.35	-19.88	-18.35	-19.88	1.47e-02	-2.185e+05	-3.788e+05	-3.788e+05	-2.185e+05	192.19
1	5	94	-5.09	-16.36	-5.09	-16.36	6.52e-02	-9.126e+04	-2.939e+05	-2.939e+05	-9.126e+04	-194.94
1	5	95	-18.28	-20.99	-18.29	-20.98	0.16	-2.590e+05	-3.496e+05	-3.475e+05	-2.611e+05	-1.367e+04
1	5	96	-17.04	-21.70	-18.54	-20.21	-2.18	-2.017e+05	-4.127e+05	-4.065e+05	-2.079e+05	-3.581e+04
1	5	97	-1.20	-24.83	-2.08	-23.94	-4.49	-1.031e+05	-3.848e+05	-3.530e+05	-1.349e+05	-8.921e+04
1	5	98	72.15	-23.71	71.07	-22.64	10.09	2.206e+05	-1.078e+05	2.031e+05	-9.036e+04	7.363e+04
1	5	99	-17.03	-21.22	-17.17	-21.08	0.77	-2.407e+05	-3.569e+05	-3.466e+05	-2.509e+05	3.294e+04
1	5	100	-11.28	-26.64	-11.48	-26.44	-1.75	-1.892e+05	-3.934e+05	-3.574e+05	-2.252e+05	-7.783e+04
1	5	101	6.37	-33.36	6.31	-33.29	1.66	-1.268e+05	-3.199e+05	-2.382e+05	-2.085e+05	-9.540e+04
1	5	102	-16.29	-20.19	-16.99	-19.49	1.50	-2.487e+05	-3.483e+05	-3.220e+05	-2.750e+05	-4.390e+04
1	5	103	-9.36	-25.71	-11.85	-23.22	5.87	-2.035e+05	-3.655e+05	-3.092e+05	-2.598e+05	-7.715e+04
1	5	104	13.64	-42.53	3.88	-32.77	21.29	-1.870e+05	-3.133e+05	-1.957e+05	-3.046e+05	-3.195e+04
1	5	105	63.28	-64.14	28.78	-29.63	56.62	1.647e+04	-2.982e+05	-1.195e+05	-1.621e+05	1.559e+05
1	5	106	-16.05	-18.72	-17.34	-17.42	1.34	-2.475e+05	-3.506e+05	-3.008e+05	-2.973e+05	-5.154e+04
1	5	107	-11.80	-23.00	-16.88	-17.92	5.58	-1.930e+05	-3.931e+05	-2.953e+05	-2.908e+05	-1.000e+05
1	5	108	11.21	-46.82	-15.67	-19.94	28.94	-2.734e+05	-2.935e+05	-2.838e+05	-2.831e+05	-1.007e+04
1	5	109	-14.60	-18.49	-17.90	-15.19	1.40	-2.455e+05	-3.503e+05	-2.776e+05	-3.182e+05	-4.834e+04
1	5	110	-8.93	-25.44	-23.75	-10.62	5.00	-2.107e+05	-3.896e+05	-2.849e+05	-3.155e+05	-8.812e+04
1	5	111	8.59	-47.22	-40.53	1.89	18.13	-2.365e+05	-4.140e+05	-3.959e+05	-2.547e+05	-5.383e+04
1	5	112	36.66	-90.67	-56.99	2.98	56.16	-2.595e+05	-5.364e+05	-4.714e+05	-3.244e+05	1.173e+05
1	5	113	-13.42	-17.86	-17.63	-13.65	0.98	-2.316e+05	-3.549e+05	-2.455e+05	-3.411e+05	-3.891e+04
1	5	114	-8.34	-23.48	-23.47	-8.34	-0.22	-1.795e+05	-3.946e+05	-2.214e+05	-3.527e+05	-8.519e+04
1	5	115	-1.31	-43.78	-42.68	-2.41	6.74	-2.380e+05	-4.282e+05	-3.215e+05	-3.447e+05	-9.439e+04
1	5	116	-13.87	-16.44	-16.43	-13.87	8.90e-02	-2.418e+05	-3.413e+05	-2.452e+05	-3.378e+05	-1.820e+04
1	5	117	-12.39	-18.35	-15.33	-15.42	-2.98	-1.574e+05	-3.947e+05	-1.672e+05	-3.849e+05	-4.717e+04
1	5	118	-9.95	-31.79	-28.53	-13.21	-7.79	-1.566e+05	-4.993e+05	-1.993e+05	-4.566e+05	-1.131e+05
1	5	119	-4.38	-97.69	-96.72	-5.36	9.49	-4.723e+05	-6.782e+05	-6.726e+05	-4.779e+05	3.338e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	81.05	-127.42	-124.39	-40.77	-73.46	4.823e+05	-8.784e+05	-8.784e+05	-5.157e+05	-2.952e+05
			74.17	3.45	73.58			4.823e+05	4.157e+04	2.898e+05

Macro	Tipo	Angolo 1-X (gradi)
2	Guscio	0.0

M_G	Cmb	Nodo	N max daN/cm	N min daN/cm	N 1 daN/cm	N 2 daN/cm	N 1-2 daN/cm	M max daN	M min daN	M 1 daN	M 2 daN	M 1-2 daN
2	3	1	-1.43	-7.48	-6.52	-2.40	-2.21	3.264e+04	-3.300e+04	-2.433e+04	2.396e+04	-2.223e+04
2	3	2	-0.55	-14.93	-8.20	-7.28	-7.17	3.675e+04	-4.712e+04	-4.712e+04	3.675e+04	-509.24
2	3	3	4.01	-6.28	-1.33	-0.94	-5.14	2.720e+04	-4.675e+04	-2.936e+04	9811.53	3.136e+04
2	3	4	8.75	-15.71	-11.94	4.97	-8.83	2.336e+04	-4.263e+04	-1743.24	-1.753e+04	3.204e+04
2	3	5	6.60	-10.59	-10.59	6.60	-0.11	2.988e+04	-4.539e+04	2.629e+04	-4.180e+04	1.604e+04
2	3	6	7.35	-14.48	-14.14	7.01	2.71	2.590e+04	-4.536e+04	1.959e+04	-3.905e+04	-2.025e+04
2	3	7	2.18	-37.09	-36.51	1.60	4.73	-9.460e+04	-1.144e+05	-9.771e+04	-1.113e+05	-7201.64
2	3	8	9.41e-02	-34.10	-32.23	-1.78	-7.78	-7.933e+04	-1.225e+05	-1.081e+05	-9.371e+04	2.035e+04
2	3	9	-0.57	-27.77	-18.42	-9.92	-12.92	-4.124e+04	-1.210e+05	-1.210e+05	-4.125e+04	-699.08
2	3	10	0.63	-23.38	-13.11	-9.64	-11.88	-1252.94	-1.032e+05	-8.207e+04	-2.236e+04	-4.131e+04
2	3	11	25.64	-47.02	-9.70	-11.68	-36.32	-4.074e+04	-2.189e+05	-7.657e+04	-1.831e+05	-7.142e+04
2	3	12	3.94	-61.52	-56.24	-1.34	-17.82	-1.330e+05	-4.548e+05	-3.499e+05	-2.379e+05	-1.509e+05
2	3	13	-11.17	-58.82	-58.82	-11.17	0.33	-1.669e+05	-5.304e+05	-5.304e+05	-1.669e+05	-109.59
2	3	14	3.19	-60.54	-55.27	-2.08	17.56	-1.356e+05	-4.498e+05	-3.466e+05	-2.389e+05	1.476e+05
2	3	15	-0.89	-33.01	-26.53	-7.36	12.89	-6.672e+04	-1.267e+05	-1.207e+05	-7.277e+04	-1.806e+04
2	3	16	5.59	-16.68	-11.79	0.70	9.22	2.573e+04	-4.792e+04	-1.081e+04	-1.137e+04	-3.682e+04
2	3	17	27.21	-46.57	-9.30	-10.06	36.88	-4.301e+04	-2.239e+05	-2.679e+04	-1.901e+05	7.050e+04
2	3	18	3.30	-18.45	-7.22	-7.94	10.87	2.380e+04	-7.473e+04	-2.822e+04	-2.270e+04	4.919e+04
2	3	19	0.32	-23.56	-15.42	-7.82	11.31	-2.373e+04	-1.097e+05	-1.047e+05	-2.879e+04	2.024e+04
2	3	20	0.27	-10.39	-7.69	-2.44	4.64	3.380e+04	-4.862e+04	-3.780e+04	2.298e+04	-2.782e+04
2	3	21	0.49	-8.27	-1.87	-5.91	3.88	3.247e+04	-3.595e+04	-3.543e+04	3.195e+04	5930.39
2	3	22	-2.69	-9.00	-7.70	-3.99	2.56	3.135e+04	-3.421e+04	-2.85e+04	1.799e+04	2.641e+04
2	3	23	0.91	-13.09	-7.01	-5.16	6.94	4.539e+04	-2.559e+04	1.776e+04	2035.37	3.461e+04
2	3	24	2.44	-16.48	-7.18	-6.86	9.46	2.476e+04	-1.720e+04	1.937e+04	-1.181e+04	1.403e+04
2	3	25	12.45	-20.12	1.15	-8.82	15.50	4.327e+04	-3.613e+04	3.049e+04	-2.335e+04	2.918e+04
2	3	26	42.29	-23.48	36.88	-18.07	18.07	9.162e+04	-4.625e+04	8.167e+04	-3.629e+04	3.568e+04
2	3	27	18.91	-19.92	15.98	-17.00	10.25	5.703e+04	2907.54	5.702e+04	2921.21	860.27
2	3	28	5.77	-20.02	1.46	-15.71	9.62	3.189e+04	-6130.50	3.147e+04	-5707.41	3988.46
2	3	29	5.29	-20.27	5.04	-20.02	2.51	1.701e+04	953.75	1.616e+04	1802.13	-3591.44
2	3	30	20.86	-20.91	20.40	-20.45	-4.32	6.288e+04	1.405e+04	6.284e+04	1.409e+04	-1415.31
2	3	31	38.47	-8.90	38.46	-8.90	-0.32	1.493e+05	1.466e+04	1.493e+05	1.466e+04	-310.29
2	3	32	39.46	-25.16	33.32	-19.01	-18.96	8.285e+04	-4.626e+04	7.228e+04	-3.569e+04	-3.539e+04
2	3	33	16.83	-19.55	9.54	-12.26	-14.56	5.503e+04	-1.575e+04	5.278e+04	-1.350e+04	-1.242e+04
2	3	34	4.63	-20.29	-1.92	-13.74	-10.97	2.233e+04	-9897.38	2.057e+04	-8138.04	-7321.00
2	3	35	8.71	-21.48	7.84	-20.61	-5.04	3.476e+04	-663.10	3.474e+04	-645.44	790.74
2	3	36	3.10	-13.85	-5.42	-5.32	-8.47	3.326e+04	-1.378e+04	2.795e+04	-8471.05	-1.489e+04
2	3	37	7.62	-16.46	-3.70	-5.14	-12.02	3.313e+04	-5.220e+04	8606.51	-2.768e+04	-3.861e+04
2	3	38	-0.51	-10.47	-8.22	-2.77	-4.17	3.276e+04	-2.657e+04	1362.66	4829.77	-2.961e+04
2	3	70	-6.58	-70.03	-68.62	-7.99	-9.36	-1.759e+05	-5.517e+05	-5.197e+05	-2.079e+05	-1.019e+05
2	3	77	15.51	-59.47	-35.56	-8.40	-34.94	-9.596e+04	-3.504e+05	-1.992e+05	-2.472e+05	-1.249e+05
2	3	84	33.31	-38.87	15.26	-20.81	-31.26	2.079e+04	-1.483e+05	-4005.26	-1.235e+05	-5.982e+04
2	3	91	38.63	-13.56	38.34	-13.27	-3.88	1.595e+05	-1.607e+04	1.559e+05	-1.244e+04	-2.497e+04
2	3	98	38.96	-15.98	38.45	-15.47	5.26	1.476e+05	-1.747e+04	1.417e+05	-1.152e+04	3.077e+04
2	3	105	32.10	-38.91	14.07	-20.88	30.91	1.388e+04	-1.437e+05	-1.116e+04	-1.187e+05	5.761e+04
2	3	112	13.82	-59.17	-35.98	-9.37	33.98	-1.013e+05	-3.502e+05	-2.044e+05	-2.471e+05	1.226e+05
2	3	119	-6.91	-71.55	-70.39	-8.06	8.56	-1.737e+05	-5.697e+05	-5.387e+05	-2.048e+05	1.065e+05
2	3	120	15.53	1.72	12.01	5.24	6.02	7063.58	-5.616e+04	-2.232e+04	-2.678e+04	-3.153e+04
2	3	121	20.92	2.81	3.25	20.48	-2.78	8279.32	-6.678e+04	8241.87	-6.675e+04	-1676.02
2	3	122	7.79	-0.28	3.60	3.90	4.03	5815.55	-5.660e+04	2205.15	-5.299e+04	1.457e+04
2	3	123	-1.43	-16.81	-1.68	-16.56	1.93	535.74	-1.090e+04	-2707.72	-7652.94	-5153.60
2	3	124	17.44	-1.53	11.57	4.35	-8.77	9648.83	-5.508e+04	2038.82	-4.747e+04	2.085e+04
2	3	125	1.61	1.24	1.27	1.58	-0.11	2575.61	-4.876e+04	-4.576e+04	-415.94	-1.203e+04
2	3	126	14.32	2.89	4.31	12.91	-3.77	6790.38	-6.268e+04	-1.513e+04	-4.076e+04	3.229e+04
2	3	127	-0.46	-20.43	-6.39	-14.49	9.13	2788.49	-2.025e+04	-1.045e+04	-7013.41	1.139e+04
2	3	128	-3.17	-13.52	-5.30	-11.39	4.18	-2639.94	-6.014e+04	-3.985e+04	-2.293e+04	2.748e+04
2	3	129	21.65	1.60	4.45	18.79	7.01	1516.96	-7.084e+04	-9031.79	-6.029e+04	-2.553e+04
2	3	130	10.76	1.81	8.66	3.91	-3.79	5753.88	-6.126e+04	-4.074e+04	-1.476e+04	3.088e+04
2	3	131	-0.61	-18.32	-6.20	-12.73	8.23	-668.33	-1.700e+04	-2646.65	-1.502e+04	5328.64
2	3	132	-3.59	-16.40	-16.40	-3.60	0.23	-3162.47	-4.778e+04	-4.770e+04	-3249.32	-1966.74
2	3	133	3.61	1.01	3.48	1.15	-0.58	403.53	-4.680e+04	-4.550e+04	-904.07	7747.25
2	3	134	9.89	-4.56	8.12	-2.80	-4.73	6542.51	-3.971e+04	-3.214e+04	-1027.59	-1.711e+04
2	3	135	-0.39	-15.53	-11.64	-4.28	-6.62	615.95	-3.906e+04	-3.340e+04	-5051.99	-1.388e+04
2	3	136	-1.02	-10.15	-3.98	-7.19	4.28	1456.77	-5865.54	1433.95	-5842.72	408.13
2	3	137	2.86	-7.08	-6.66	2.45	1.99	2679.27	-3.065e+04	-2.883e+04	861.14	-7568.68
2	3	138	-2.29	-15.44	-11.31	-6.42	-6.10	-8283.57	-5.416e+04	-2.993e+04	-3.251e+04	-2.290e+04
2	3	139	0.38	-10.58	-10.05	-0.15	-2.36	365.46	-3.021e+04	-2.924e+04	-605.04	-5360.06
2	3	140	-0.35	-13.06	-10.08	-3.33	5.38	-511.45	-2.463e+04	-1.635e+04	-8786.44	1.145e+04
2	3	141	0.53	-14.05	-10.42	-3.10	-6.30	-556.95	-1.655e+04	-8509.49	-8602.36	-7998.84
2	3	142	4.40	-1.51	-1.26	4.15	-1.20	1829.85	-4.649e+04	-3.212e+04	-1.254e+04	-2.209e+04
2	3	143	5.11e-02	-17.87	-10.71	-7.11	-8.78	-1208.55	-2.770e+04	-1.839e+04	-1.052e+04	-1.265e+04
2	3	144	1.04	-13.72	-7.81	-4.87	7.23	1.168e+04	-2.599e+04	-464.08	-1.385e+04	1.760e+04
2	3	145	3.93	-13.49	1.61	-11.17	-5.92	1.893e+04	-1.312e+04	1.885e+04	-1.304e+04	-1638.65
2	3	146	0.78	-5.33	-5.17	0.61	1.00	764.69	-3.934e+04	-3.717e+04	-1405.77	9074.27

2	3	147	-0.71	-21.74	-4.21	-18.25	-7.83	-1379.57	-1.646e+04	-3082.74	-1.476e+04	-4773.61
2	3	148	-7.57	-15.46	-7.59	-15.45	0.32	-1.315e+04	-6.076e+04	-1.669e+04	-5.722e+04	-1.249e+04
2	3	149	2.54	-12.06	1.76	-11.28	-3.27	6435.60	929.04	4207.52	3157.13	-2702.73
2	3	150	-2.83	-11.05	-10.94	-2.95	0.96	7149.11	-3.879e+04	-2.941e+04	-2228.48	1.852e+04
2	3	151	-0.94	-23.21	-1.00	-23.15	1.12	-2024.45	-1.692e+04	-3002.13	-1.594e+04	3688.19
2	3	152	9.51	-28.80	-7.66	-11.64	19.05	-4.540e+04	-1.226e+05	-7.377e+04	-9.425e+04	3.722e+04
2	3	153	-0.32	-12.24	-7.59	-4.98	5.82	7732.00	-7.601e+04	-4.417e+04	-2.411e+04	4.065e+04
2	3	154	1.27	-9.63	-9.32	0.96	1.81	-1894.14	-3.414e+04	-3.411e+04	-1932.02	-1104.53
2	3	155	1.78	-9.96	-9.94	1.76	-0.50	2591.11	-2.902e+04	-2.462e+04	-1808.59	1.094e+04
2	3	156	8.19e-02	-15.59	-13.91	-1.60	4.85	-446.84	-3.723e+04	-3.376e+04	-3919.26	1.076e+04
2	3	157	3.58	-19.36	-7.47	-8.31	11.46	1.644e+04	-2.925e+04	5111.71	-1.792e+04	1.973e+04
2	3	158	-3.55e-02	-22.59	-10.65	-11.98	11.26	-287.95	-2.820e+04	-1.276e+04	-1.573e+04	1.388e+04
2	3	159	1.98	-13.70	0.34	-12.05	4.81	1.692e+04	-7814.28	1.521e+04	-6110.33	-6263.98
2	3	160	-1.20	-26.19	-3.22	-24.16	6.82	-1931.97	-1.748e+04	-2410.05	-1.700e+04	2684.35
2	3	161	3.06	-16.24	2.56	-15.74	3.08	1.121e+04	-23.39	9538.85	1644.34	3993.40
2	3	162	-1.25	-26.62	-1.93	-25.94	-4.08	-1401.84	-1.937e+04	-4003.63	-1.677e+04	-6323.70
2	3	163	-1.45	-22.42	-2.27	-21.60	-4.05	3542.11	-1.787e+04	2132.80	-1.646e+04	5309.45
2	3	164	-1.45	-20.23	-7.46	-14.21	-8.77	-1509.83	-1.826e+04	-1.334e+04	-6425.07	-7625.68
2	3	165	-1.09	-20.23	-9.35	-11.97	-9.48	-1102.31	-2.009e+04	-5352.69	-1.584e+04	-7913.90
2	3	166	0.43	-15.25	-5.54	-9.29	-7.61	9742.07	-1.617e+04	6276.66	-1.570e+04	-8819.14
2	3	167	-0.13	-13.87	-11.20	-2.80	-5.43	-699.33	-3.394e+04	-2.299e+04	-1.164e+04	-1.562e+04
2	3	168	-0.54	-16.39	-12.61	-4.33	-6.76	9013.29	-3.458e+04	-1.142e+04	-1.415e+04	-2.175e+04
2	3	169	1.17	-5.92	-5.88	1.12	0.54	1339.23	-5.143e+04	-5.103e+04	940.79	-4568.04
2	3	170	-1.19	-13.99	-9.51	-5.66	-6.10	-7270.31	-8.139e+04	-6.783e+04	-2.083e+04	-2.866e+04
2	3	171	6.79	-32.25	-12.01	-13.46	-19.51	-6.598e+04	-1.511e+05	-1.053e+05	-1.118e+05	-4.243e+04
2	3	172	12.02	-27.29	-5.20	-10.06	-19.51	-2.082e+04	-1.000e+05	-5.262e+04	-6.826e+04	-3.883e+04
2	3	173	21.53	-26.16	9.76	-14.39	-20.56	2.162e+04	-7.475e+04	1201.97	-5.434e+04	-3.938e+04
2	3	174	27.63	-22.35	19.40	-14.13	-18.53	5.084e+04	-3.384e+04	4.084e+04	-2.384e+04	-2.732e+04
2	3	175	33.84	-18.39	32.06	-16.61	-9.48	9.753e+04	-8578.82	9.294e+04	-3984.45	-2.160e+04
2	3	176	34.90	-17.47	34.89	-17.46	0.59	1.027e+05	4320.84	1.027e+05	4361.28	1994.47
2	3	177	30.08	-20.55	26.85	-17.31	12.39	7.208e+04	-9200.33	6.886e+04	-5988.39	1.583e+04
2	3	178	28.13	-22.94	19.85	-14.66	18.82	4.998e+04	-3.807e+04	3.749e+04	-2.558e+04	3.072e+04
2	3	179	16.57	-25.69	1.91	-11.04	20.11	1.111e+04	-7.892e+04	-1.613e+04	-5.167e+04	4.136e+04
2	3	180	4.73	-15.75	-5.85	-5.17	10.23	1.992e+04	-7.102e+04	-1.383e+04	-3.726e+04	4.393e+04
2	3	181	4.07	-17.04	-7.87	-5.10	10.46	1.616e+04	-6.284e+04	-2.614e+04	-2.054e+04	3.940e+04
2	3	182	0.61	-11.25	-10.61	-2.88e-02	2.67	8180.41	-5.042e+04	-3.781e+04	-4423.35	2.408e+04
2	3	183	-1.72	-9.65	-6.53	-4.84	3.88	1.663e+04	-4.756e+04	-1.989e+04	-1.104e+04	3.179e+04
2	3	184	3.79	-18.56	-10.87	-3.89	10.61	2.376e+04	-5.040e+04	-4935.10	-2.171e+04	3.612e+04
2	3	185	1.38	-15.25	-8.46	-5.41	8.17	1.419e+04	-3.894e+04	-2097.25	-2.266e+04	2.449e+04
2	3	186	4.06	-18.00	-3.09	-10.86	10.33	1.927e+04	-3.103e+04	1.634e+04	-2.810e+04	1.177e+04
2	3	187	3.38	-16.86	-1.25	-12.23	8.50	1.640e+04	-1.897e+04	1.487e+04	-1.744e+04	7193.28
2	3	188	8.04	-21.42	4.50	-17.87	9.59	2.683e+04	-2.112e+04	2.674e+04	-2.102e+04	2150.80
2	3	189	3.76	-18.02	2.43	-16.69	5.21	1.291e+04	-1.238e+04	1.291e+04	-1.238e+04	-223.09
2	3	190	4.08	-20.15	4.06	-20.13	0.80	7760.62	-1.036e+04	7505.77	-1.010e+04	-2133.74
2	3	191	4.95	-19.80	4.69	-19.54	-2.53	1.347e+04	-1.255e+04	1.300e+04	-1.209e+04	3458.71
2	3	192	4.73	-21.10	1.11	-17.48	-8.97	1.427e+04	-2.031e+04	1.399e+04	-2.003e+04	-3089.12
2	3	193	1.98	-15.69	-2.94	-10.77	-7.92	1.258e+04	-2.399e+04	1.018e+04	-2.159e+04	-9065.58
2	3	194	3.90	-18.28	-5.78	-8.60	-11.00	1.786e+04	-3.477e+04	1.237e+04	-2.928e+04	-1.609e+04
2	3	195	1.32	-12.18	-6.43	-4.43	-6.67	1.853e+04	-3.910e+04	-559.92	-2.000e+04	-2.713e+04
2	3	196	3.23	-19.26	-12.97	-3.05	-10.09	2.583e+04	-5.793e+04	-1.915e+04	-1.295e+04	-4.177e+04
2	3	197	-1.09	-9.26	-5.12	-5.23	-4.08	2.201e+04	-4.913e+04	-1.990e+04	-7220.27	-3.500e+04
2	3	198	1.41	-12.73	-10.86	-0.47	-4.80	1.853e+04	-6.499e+04	-4.538e+04	-1081.01	-3.541e+04
2	3	199	1.18	-18.33	-9.06	-8.09	-9.74	7826.78	-8.158e+04	-5.251e+04	-2.125e+04	-4.188e+04
2	3	200	3.44	-19.51	-8.35	-7.73	-11.47	734.60	-1.026e+05	-5.815e+04	-4.371e+04	-5.116e+04
2	3	201	10.98	-20.79	10.58	-20.39	3.54	1.842e+04	-9765.36	1.833e+04	-9672.39	-1616.09
2	3	202	13.57	-22.17	12.71	-21.32	-5.46	2.750e+04	-9811.37	2.734e+04	-9651.44	2437.43
2	3	203	8.79	-19.34	2.30	-12.85	-11.85	1.793e+04	-1.546e+04	1.703e+04	-1.457e+04	-5400.89
2	3	204	6.69	-17.44	-3.95	-6.79	-11.98	2.840e+04	-3.903e+04	1.300e+04	-2.364e+04	-2.830e+04
2	3	205	1.31	-11.44	-8.15	-1.97	5.58	2.055e+04	-4.479e+04	-1.068e+04	-1.356e+04	3.264e+04
2	3	206	3.59	-17.10	-5.16	-8.35	10.22	2.648e+04	-5.425e+04	3919.39	-3.169e+04	3.623e+04
2	3	207	7.81	-17.43	-1.76	-7.87	12.24	2.596e+04	-3.613e+04	1.964e+04	-2.981e+04	1.877e+04
2	3	208	7.29	-17.45	-1.88	-8.28	11.95	3.001e+04	-4.236e+04	1.887e+04	-3.122e+04	2.612e+04
2	3	209	7.68	-18.56	0.82	-11.70	11.53	2.638e+04	-3.124e+04	2.270e+04	-2.757e+04	1.408e+04
2	3	210	11.37	-18.97	7.41	-15.00	10.22	3.549e+04	-2.253e+04	3.490e+04	-2.195e+04	5801.44
2	3	211	14.43	-20.41	14.13	-20.10	3.24	2.930e+04	-3818.02	2.920e+04	-3719.35	1805.02
2	3	212	12.44	-19.06	6.99	-13.61	-11.92	3.553e+04	-2.940e+04	3.427e+04	-2.814e+04	-8967.02
2	3	213	10.71	-19.07	9.90	-18.26	-4.85	2.385e+04	-3828.66	2.372e+04	-3694.57	-1921.94
2	3	214	6.80	-18.53	-0.81	-10.92	-11.61	2.934e+04	-3.771e+04	2.384e+04	-3.221e+04	-1.840e+04
2	3	215	1.74	-14.57	-9.39	-3.44	-7.59	2.098e+04	-6.663e+04	-2.647e+04	-1.918e+04	-4.365e+04
2	3	216	4.19	-17.96	-4.64	-9.13	-10.85	2.085e+04	-5.428e+04	-1622.79	-3.181e+04	-3.440e+04
2	3	217	1.97	-15.19	-6.15	-7.07	-8.57	8555.43	-7.941e+04	-3.634e+04	-3.452e+04	-4.397e+04
2	3	218	7.83	-16.62	-4.29	-4.50	12.22	2.872e+04	-5.651e+04	7857.55	-3.565e+04	3.664e+04
2	3	219	20.95	-19.25	15.75	-14.05	13.49	5.445e+04	-2.268e+04	5.182e+04	-2.004e+04	1.402e+04
2	3	220	17.57	-17.50	10.70	-10.63	-13.92	5.310e+04	-3.450e+04	4.761e+04	-2.902e+04	-2.122e+04
2	3	221	21.12	-19.75	18.39	-17.01	-20.22	4.779e+04	-1.743e+04	4.723e+04	-1.687e+04	-6017.67
2	3	222	28.04	-19.77	27.94	-19.67	-2.21	7.149e+04	6642.75	7.149e+04	6642.78	-43.46
2	3	223	15.54	-21.06	14.08	-19.59	-7.17	3.430e+04	-1.349e+04	3.410e+04	-1.329e+04	3110.45

2	3	224	12.82	-19.05	8.59	-14.83	-10.80	3.305e+04	-1.890e+04	3.272e+04	-1.857e+04	-4127.91
2	3	225	18.00	-22.02	17.99	-22.01	-0.58	3.915e+04	-8081.60	3.834e+04	-7270.19	-6137.09
2	3	226	10.54	-18.68	0.15	-8.29	-13.99	2.861e+04	-4.283e+04	1.891e+04	-3.314e+04	-2.446e+04
2	3	227	13.90	-18.98	5.29	-10.36	14.46	4.022e+04	-3.706e+04	3.503e+04	-3.187e+04	1.936e+04
2	3	228	13.60	-19.45	7.48	-13.33	12.84	3.484e+04	-2.577e+04	3.327e+04	-2.420e+04	9607.65
2	3	229	16.44	-21.83	4.70	-10.09	-17.65	3.436e+04	-6.566e+04	1.745e+04	-4.875e+04	-3.749e+04
2	3	230	18.43	-21.56	17.19	-20.32	6.95	3.873e+04	-1.247e+04	3.871e+04	-1.245e+04	970.70
2	3	231	7.42	-18.27	-4.60	-6.25	-12.82	2.094e+04	-5.009e+04	4527.73	-3.369e+04	-2.994e+04
2	3	232	24.77	-19.88	23.60	-18.71	7.14	6.513e+04	-1233.29	6.469e+04	-792.33	5391.46
2	3	233	7.34	-18.31	6.27	-17.24	-5.12	2.211e+04	-1.188e+04	2.204e+04	-1.182e+04	-1475.49
2	3	234	12.66	-18.88	12.31	-18.53	-3.28	1.980e+04	3106.36	1.932e+04	3585.50	2787.20
2	3	235	0.58	-12.43	-9.90	-1.95	-5.15	1.505e+04	-3.257e+04	-4003.41	-1.352e+04	-2.333e+04
2	3	236	6.73	-23.21	6.31	-22.79	3.50	1.992e+04	-2.064e+04	1.987e+04	-2.059e+04	-1448.46
2	3	237	15.79	-19.56	10.83	-14.60	12.28	3.864e+04	-1.927e+04	3.774e+04	-1.837e+04	7173.75
2	3	238	10.34	-20.95	5.72	-16.34	11.10	2.180e+04	-2.015e+04	2.178e+04	-2.013e+04	816.28
2	3	239	5.60	-22.61	-3.11	-13.89	-13.04	1.614e+04	-2.594e+04	9217.56	-1.902e+04	-1.560e+04
2	3	240	28.31	-19.16	26.96	-17.81	-7.89	7.546e+04	-4409.36	7.506e+04	-4009.62	-5636.11
2	3	241	24.73	-21.90	16.80	-13.97	-17.52	6.229e+04	-2.577e+04	5.543e+04	-1.890e+04	-2.361e+04
2	3	242	11.68	-18.15	8.93	-15.39	8.64	3.031e+04	-1.037e+04	3.025e+04	-1.032e+04	1527.90
2	3	243	18.48	-20.49	10.50	-12.51	15.72	4.087e+04	-4.296e+04	3.601e+04	-3.810e+04	1.959e+04
2	3	244	-0.20	-15.83	-14.30	-1.73	4.64	1.755e+04	-6.542e+04	-5.346e+04	5593.36	2.914e+04
2	3	245	2.97	-14.87	-8.45	-3.46	-8.56	1.604e+04	-6.776e+04	-1.694e+04	-3.478e+04	-4.094e+04
2	3	246	5.81	-16.68	-3.23	-7.64	-11.03	2.269e+04	-5.060e+04	4954.61	-3.287e+04	-3.139e+04
2	3	247	4.92	-11.59	-8.73	2.07	6.25	4030.84	-3.610e+04	-3.607e+04	4006.51	987.69
2	3	248	2.27	-0.30	-0.29	2.26	-0.17	2332.21	-5.868e+04	-5.191e+04	-4437.59	1.916e+04
2	3	249	11.57	-2.20	11.22	-1.84	2.19	5875.52	-5.200e+04	-3.806e+04	-8067.88	2.475e+04
2	3	250	2.57	-15.93	-14.49	1.13	-4.95	-1.444e+04	-5.495e+04	-4.774e+04	-2.165e+04	1.549e+04
2	3	251	18.94	0.73	10.61	9.06	-9.08	4154.37	-7.096e+04	-2.612e+04	-4.069e+04	3.684e+04
2	3	252	-5.70	-19.64	-13.47	-11.87	6.93	-1.549e+04	-7.255e+04	-3.801e+04	-5.004e+04	2.789e+04
2	3	253	21.57	3.08	4.25	20.41	-4.49	3817.69	-8.398e+04	-4388.29	-7.578e+04	2.556e+04
2	3	254	-4.65	-15.62	-8.79	-11.47	-5.32	-1.749e+04	-7.317e+04	-1.792e+04	-7.274e+04	4890.16
2	3	255	21.52	1.89	4.14	19.26	6.26	6668.15	-7.482e+04	6183.47	-7.434e+04	-6265.92
2	3	256	11.78	-0.60	-0.16	11.34	-2.28	4973.73	-6.978e+04	-2065.13	-6.274e+04	-2.189e+04
2	3	257	15.76	-4.33	11.59	-0.16	8.15	9253.70	-6.046e+04	-4341.49	-4.686e+04	-2.762e+04
2	3	258	14.40	2.02	5.28	11.15	5.45	5027.15	-7.430e+04	-2.773e+04	-4.154e+04	-3.906e+04
2	3	259	-6.98	-12.54	-8.83	-10.70	-2.62	-8254.58	-6.712e+04	-5.653e+04	-1.885e+04	-2.261e+04
2	3	260	9.43	2.07	7.62	3.88	3.17	2889.83	-6.830e+04	-5.569e+04	-9726.20	-2.718e+04
2	3	261	-1.65	-18.75	-18.75	-1.65	-1.15e-02	-2505.24	-5.584e+04	-5.576e+04	-2587.23	2089.49
2	3	262	4.29	-1.53	2.31	0.45	-2.75	3743.67	-4.681e+04	-4.652e+04	3454.01	-3815.77
2	3	263	-0.94	-52.16	-41.27	-11.83	-20.95	-1.479e+05	-2.885e+05	-2.499e+05	-1.865e+05	-6.274e+04
2	3	264	1.54	-57.46	-53.23	-2.68	-15.21	-1.688e+05	-2.645e+05	-2.598e+05	-1.735e+05	-2.071e+04
2	3	265	2.27	-39.33	-26.44	-10.62	-19.23	-1.005e+05	-1.920e+05	-1.692e+05	-1.232e+05	-3.956e+04
2	3	266	-1.84	-23.93	-13.13	-12.64	-11.04	-3.168e+04	-1.277e+05	-1.259e+05	-3.350e+04	-1.308e+04
2	3	267	-6.72e-02	-15.04	-12.98	-2.12	-5.15	7420.82	-8.630e+04	-8.123e+04	2354.81	-2.119e+04
2	3	268	-0.51	-3.52	-2.10	-1.93	1.51	6812.10	-5.862e+04	-5.827e+04	6464.54	-4756.14
2	3	269	-2.12	-9.64	-8.91	-2.85	-2.23	1.448e+04	-7.785e+04	-7.764e+04	1.427e+04	-4358.82
2	3	270	1.62	-7.23	-0.68	-4.93	-3.88	6491.48	-6.987e+04	-6.765e+04	4267.21	1.284e+04
2	3	271	-1.84	-4.07	-3.86	-2.05	-0.65	4779.81	-8.336e+04	-7.298e+04	-5598.71	2.841e+04
2	3	272	0.55	-6.77	-5.40	-0.82	-2.86	-146.25	-8.987e+04	-5.426e+04	-3.576e+04	4.390e+04
2	3	273	1.20	-9.47	-8.91	0.63	-2.38	2149.86	-9.390e+04	-4.124e+04	-5.051e+04	4.780e+04
2	3	274	2.88	-16.56	-12.39	-1.30	-7.98	-8954.67	-9.035e+04	-2.934e+04	-6.996e+04	3.527e+04
2	3	275	-0.30	-6.42	-6.40	-0.33	-0.40	-1556.78	-9.322e+04	-1.491e+04	-7.986e+04	3.234e+04
2	3	276	2.52	-4.07	-3.86	2.32	-1.15	785.47	-9.823e+04	785.46	-9.823e+04	20.71
2	3	277	2.73	-8.16	-5.41	-2.13e-02	4.73	-1801.09	-9.415e+04	-2950.01	-9.300e+04	-1.024e+04
2	3	278	5.37	-11.42	-8.67	2.62	6.22	-5897.44	-9.354e+04	-2.986e+04	-6.958e+04	-3.907e+04
2	3	279	1.01	-7.85	-7.83	1.00	-0.36	3606.37	-9.132e+04	-5.295e+04	-3.476e+04	-4.658e+04
2	3	280	1.11	-4.02	-2.55	-0.36	2.32	3083.54	-8.744e+04	-5.936e+04	-2.499e+04	-4.187e+04
2	3	281	-0.95	-9.74	-9.74	-0.95	-0.15	9008.76	-8.484e+04	-7.978e+04	3949.59	-2.119e+04
2	3	282	0.18	-11.20	-3.42	-7.60	5.29	6168.21	-7.410e+04	-7.400e+04	6065.23	-2873.29
2	3	283	0.31	-12.42	-11.96	-0.16	2.39	1.644e+04	-7.783e+04	-7.665e+04	1.527e+04	1.046e+04
2	3	284	-1.16	-9.42	-7.82	-2.76	3.26	1.170e+04	-6.820e+04	-6.173e+04	5230.52	2.180e+04
2	3	285	-1.95	-13.75	-8.99	-6.71	5.79	4062.26	-8.587e+04	-7.124e+04	-1.056e+04	3.319e+04
2	3	286	0.66	-24.24	-13.49	-10.09	12.34	-2.269e+04	-1.248e+05	-1.046e+05	-4.293e+04	4.071e+04
2	3	287	6.56	-36.23	-17.92	-11.75	21.17	-6.908e+04	-1.667e+05	-1.275e+05	-1.083e+05	4.788e+04
2	3	288	0.77	-53.77	-44.88	-8.13	20.15	-1.507e+05	-2.845e+05	-2.568e+05	-1.784e+05	5.429e+04
2	3	289	-3.42	-59.93	-58.16	-5.19	9.83	-1.811e+05	-3.619e+05	-3.496e+05	-1.934e+05	4.548e+04
2	3	290	-5.27	-58.14	-58.14	-5.27	0.19	-1.834e+05	-3.559e+05	-3.557e+05	-1.836e+05	-5802.08
2	3	291	5.66	-24.00	-23.98	5.64	0.70	-3.393e+04	-1.051e+05	-4.570e+04	-9.335e+04	2.645e+04
2	3	292	6.50	-23.23	-22.88	6.15	-3.21	-2.795e+04	-1.062e+05	-4.852e+04	-8.565e+04	-3.445e+04
2	3	293	7.13	-21.46	-7.73	-6.60	14.28	-3.354e+04	-9.265e+04	-5.532e+04	-7.087e+04	-2.851e+04
2	3	294	4.97	-24.51	-15.86	-3.68	13.43	-8371.84	-9.373e+04	-9.218e+04	-9929.31	-1.142e+04
2	3	295	4.59	-22.40	-7.67	-10.14	-13.44	-7072.26	-8.207e+04	-8.120e+04	-7943.44	-8036.02
2	3	296	-3.13	-17.96	-9.25	-11.84	-7.30	-1.592e+04	-9.421e+04	-9.412e+04	-1.601e+04	2645.59
2	3	297	-1.65	-18.89	-10.94	-9.60	-8.59	-2.781e+04	-1.011e+05	-8.011e+04	-4.885e+04	3.317e+04
2	3	298	1.08	-22.81	-13.16	-8.57	-11.72	-3.296e+04	-1.080e+05	-1.040e+05	-3.694e+04	1.681e+04
2	3	299	2.17	-20.14	-18.85	0.88	-5.21	-1.115e+04	-1.011e+05	-9.802e+04	-1.419e+04	1.625e+04
2	3	300	3.80	-28.45	-27.73	3.08	-4.77	-2.739e+04	-1.106e+05	-8.071e+04	-5.725e+04	3.990e+04

2	3	301	0.76	-26.20	-24.70	-0.74	-6.20	-3.938e+04	-1.063e+05	-4.027e+04	-1.054e+05	-7677.56
2	3	302	1.38	-28.19	-23.90	-2.91	10.42	-4.493e+04	-1.010e+05	-4.509e+04	-1.008e+05	-3059.57
2	3	303	0.90	-29.61	-27.98	-0.73	6.86	-3.456e+04	-1.139e+05	-9.953e+04	-4.896e+04	-3.058e+04
2	3	304	-2.21	-18.64	-12.21	-8.64	8.02	-2.568e+04	-9.762e+04	-8.457e+04	-3.873e+04	-2.772e+04
2	3	305	2.43	-23.55	-11.77	-9.35	12.94	-2721.10	-9.390e+04	-8.569e+04	-1.093e+04	2.610e+04
2	3	306	-3.17	-12.45	-11.57	-4.05	2.72	-6744.53	-9.248e+04	-9.242e+04	-6800.74	-2194.51
2	3	307	2.86	-24.69	-14.50	-7.32	-13.30	-4.879e+04	-1.099e+05	-1.097e+05	-4.899e+04	3484.78
2	3	308	-1.59	-20.19	-10.07	-11.70	9.26	-2.948e+04	-1.099e+05	-1.051e+05	-3.423e+04	1.897e+04
2	3	309	-4.64	-41.52	-39.22	-6.94	-8.92	-1.161e+05	-1.808e+05	-1.755e+05	-1.214e+05	1.778e+04
2	3	310	-2.12	-54.72	-53.77	-3.08	7.02	-1.635e+05	-1.889e+05	-1.867e+05	-1.656e+05	7096.90
2	3	311	5.64	-31.98	-31.71	5.37	3.17	-7.262e+04	-1.264e+05	-8.543e+04	-1.136e+05	-2.291e+04
2	3	312	3.39	-33.05	-24.70	-4.96	15.31	-6.776e+04	-1.334e+05	-1.064e+05	-9.480e+04	-3.230e+04
2	3	313	-3.65	-39.45	-36.42	-6.68	9.96	-9.081e+04	-1.804e+05	-1.795e+05	-9.173e+04	-9027.70
2	3	314	-0.49	-37.90	-36.35	-2.04	7.45	-1.341e+05	-1.771e+05	-1.592e+05	-1.521e+05	-2.121e+04
2	3	315	5.77	-33.38	-32.81	5.20	4.69	-8.969e+04	-1.325e+05	-8.972e+04	-1.325e+05	1057.28
2	3	316	1.83	-25.07	-14.90	-8.34	13.04	-6.245e+04	-1.260e+05	-1.189e+05	-6.956e+04	-2.003e+04
2	3	317	1.94	-32.54	-24.35	-6.25	-14.67	-7.048e+04	-1.444e+05	-1.352e+05	-7.971e+04	2.445e+04
2	3	318	1.97	-29.61	-24.95	-2.69	-11.21	-6.451e+04	-1.291e+05	-1.081e+05	-8.544e+04	3.022e+04
2	3	319	-3.43	-35.52	-26.13	-12.82	14.60	-9.695e+04	-1.756e+05	-1.723e+05	-1.003e+05	1.595e+04
2	3	320	-3.83	-17.35	-9.32	-11.86	6.64	-2.880e+04	-1.170e+05	-1.170e+05	-9.881e+04	1256.05
2	3	321	4.24	-34.39	-33.61	3.45	-5.46	-9.055e+04	-1.435e+05	-1.039e+05	-1.301e+05	2.298e+04
2	3	322	1.34	-23.74	-11.51	-10.88	12.53	-4.000e+04	-1.198e+05	-1.186e+05	-4.118e+04	-9664.45
2	3	323	-6.15	-44.72	-41.58	-9.29	-10.55	-1.599e+05	-1.725e+05	-1.719e+05	-1.605e+05	2650.45
2	3	324	4.67	-10.37	-3.64	-2.05	7.48	2351.82	-6.958e+04	-5.408e+04	-1.315e+04	-2.957e+04
2	3	325	-3.27	-16.93	-16.73	-3.48	1.67	-7.258e+04	-1.181e+05	-7.504e+04	-1.156e+05	-1.029e+04
2	3	326	10.86	-10.26	-9.87	10.48	2.83	-3814.25	-8.309e+04	-1.587e+04	-7.103e+04	-2.847e+04
2	3	327	16.31	-17.80	-17.69	16.20	1.94	-4091.85	-7.788e+04	-8510.54	-7.346e+04	1.751e+04
2	3	328	3.77	-31.21	-27.70	0.26	-10.51	-8.497e+04	-1.345e+05	-1.099e+05	-1.096e+05	2.478e+04
2	3	329	7.18	-20.69	-18.26	4.75	-7.86	-4.206e+04	-9.653e+04	-6.747e+04	-7.113e+04	-2.717e+04
2	3	330	-5.52	-52.07	-51.90	-5.69	2.79	-1.676e+05	-2.351e+05	-2.349e+05	-1.679e+05	-3894.06
2	3	331	3.79	-55.57	-42.37	-9.41	24.68	-1.298e+05	-2.134e+05	-2.086e+05	-1.346e+05	1.959e+04
2	3	332	-3.71	-25.48	-20.12	-9.07	-9.38	-5.486e+04	-1.119e+05	-7.149e+04	-9.532e+04	2.594e+04
2	3	333	-6.97	-33.59	-27.11	-13.45	-11.42	-1.218e+05	-1.805e+05	-1.805e+05	-1.218e+05	-985.64
2	3	334	2.91	-8.07	2.84	-8.01	0.84	1.342e+04	-4.580e+04	-4.056e+04	8192.93	-1.681e+04
2	3	335	-1.19	-14.34	-7.46	-8.06	6.57	-1.607e+04	-8.894e+04	-8.682e+04	-1.819e+04	1.224e+04
2	4	1	-1.92	-7.34	-6.69	-2.57	-1.76	3.041e+04	-3.107e+04	-2.432e+04	2.366e+04	-1.922e+04
2	4	2	-1.85	-13.61	-8.24	-7.22	-5.86	3.467e+04	-4.337e+04	-4.333e+04	3.463e+04	1719.82
2	4	3	1.90	-5.53	-2.01	-1.62	-3.71	2.602e+04	-4.411e+04	-2.647e+04	8384.73	3.043e+04
2	4	4	5.83	-13.92	-10.91	2.81	-7.10	2.323e+04	-3.997e+04	245.28	-1.699e+04	3.041e+04
2	4	5	3.81	-9.29	-9.29	3.81	0.20	2.885e+04	-4.259e+04	2.560e+04	-3.934e+04	1.488e+04
2	4	6	4.38	-12.73	-12.50	4.15	1.96	2.540e+04	-4.272e+04	1.963e+04	-3.695e+04	-1.897e+04
2	4	7	-0.33	-32.04	-31.56	-0.81	3.90	-8.551e+04	-1.065e+05	-8.806e+04	-1.040e+05	-6862.77
2	4	8	-2.11	-29.48	-28.07	-3.52	-6.05	-7.329e+04	-1.130e+05	-9.819e+04	-8.812e+04	1.922e+04
2	4	9	-2.67	-24.26	-16.88	-10.05	-10.24	-4.038e+04	-1.120e+05	-1.120e+05	-4.040e+04	1223.97
2	4	10	-1.19	-21.02	-12.65	-9.56	-9.79	-5308.77	-9.644e+04	-7.918e+04	-2.257e+04	-3.571e+04
2	4	11	19.27	-40.77	-9.89	-11.61	-30.01	-4.885e+04	-2.132e+05	-7.739e+04	-1.847e+05	-6.226e+04
2	4	12	1.31	-52.90	-48.57	-3.02	-14.70	-1.272e+05	-4.231e+05	-3.241e+05	-2.262e+05	-1.396e+05
2	4	13	-11.28	-50.68	-50.67	-11.29	0.26	-1.561e+05	-4.896e+05	-4.896e+05	-1.561e+05	-153.26
2	4	14	0.65	-52.03	-47.71	-3.67	14.46	-1.295e+05	-4.187e+05	-3.212e+05	-2.270e+05	1.367e+05
2	4	15	-2.98	-28.68	-23.53	-8.13	10.29	-6.277e+04	-1.170e+05	-1.103e+05	-6.947e+04	-1.784e+04
2	4	16	2.98	-14.76	-10.89	-0.88	7.33	2.517e+04	-4.499e+04	-8385.86	-1.143e+04	-3.505e+04
2	4	17	20.92	-40.27	-9.29	-10.06	30.59	-5.058e+04	-2.183e+05	-7.733e+04	-1.916e+05	6.142e+04
2	4	18	0.82	-16.75	-7.81	-8.12	8.78	1.653e+04	-7.125e+04	-3.188e+04	-2.284e+04	4.366e+04
2	4	19	-1.51	-20.89	-14.69	-7.71	9.04	-2.530e+04	-1.020e+05	-9.831e+04	-2.895e+04	1.632e+04
2	4	20	-1.08	-9.40	-7.68	-2.80	3.37	3.209e+04	-4.503e+04	-3.389e+04	2.096e+04	-2.711e+04
2	4	21	-0.80	-7.62	-2.63	-5.79	3.02	3.052e+04	-3.354e+04	-3.335e+04	3.033e+04	3518.96
2	4	22	-2.91	-8.55	-7.61	-3.85	2.10	2.928e+04	-3.213e+04	-2.127e+04	1.842e+04	2.343e+04
2	4	23	-0.48	-11.86	-7.05	-5.29	5.62	4.186e+04	-2.396e+04	1.367e+04	4233.10	3.257e+04
2	4	24	1.67	-14.44	-6.55	-6.22	8.06	2.320e+04	-1.739e+04	1.631e+04	-1.051e+04	1.523e+04
2	4	25	8.85	-18.14	-0.50	-8.80	12.84	3.375e+04	-3.755e+04	2.086e+04	-2.466e+04	2.744e+04
2	4	26	33.62	-21.01	29.17	-16.56	14.95	5.896e+04	-5.464e+04	5.377e+04	-4.946e+04	2.371e+04
2	4	27	14.19	-17.83	11.72	-15.37	8.54	4.679e+04	-3419.44	4.670e+04	-3329.38	2124.49
2	4	28	3.93	-17.17	0.37	-13.61	7.90	3.044e+04	-7446.35	2.952e+04	-6526.23	5832.18
2	4	29	3.87	-17.53	3.63	-17.30	2.24	1.716e+04	-1312.40	1.685e+04	-1007.22	-2354.50
2	4	30	15.71	-18.50	15.35	-18.14	-3.49	5.291e+04	5979.21	5.285e+04	6048.13	-1797.27
2	4	31	30.23	-8.92	30.23	-8.91	-0.26	1.060e+05	2970.35	1.060e+05	2971.73	-378.34
2	4	32	30.57	-22.44	25.51	-17.39	-15.57	5.186e+04	-5.487e+04	4.621e+04	-4.921e+04	-2.391e+04
2	4	33	12.32	-17.59	6.31	-11.57	-11.99	4.447e+04	-2.017e+04	4.176e+04	-1.746e+04	-1.296e+04
2	4	34	3.25	-17.72	-2.14	-12.33	-9.16	2.203e+04	-1.081e+04	1.934e+04	-8115.34	-9013.25
2	4	35	6.15	-18.47	5.42	-17.74	-4.18	3.358e+04	-3196.25	3.357e+04	-3188.67	-527.91
2	4	36	1.91	-12.44	-5.49	-5.04	-7.17	3.058e+04	-1.321e+04	2.387e+04	-6509.18	-1.577e+04
2	4	37	4.87	-15.02	-4.80	-5.36	-9.94	2.468e+04	-5.157e+04	1053.64	-2.794e+04	-3.526e+04
2	4	38	-1.09	-9.43	-7.57	-2.94	-3.47	3.055e+04	-2.511e+04	-1013.97	6453.50	-2.758e+04
2	4	70	-7.66	-59.82	-58.60	-8.89	-7.90	-1.663e+05	-5.097e+05	-4.797e+05	-1.963e+05	-9.696e+04
2	4	77	10.34	-51.12	-31.13	-9.65	-28.79	-9.741e+04	-3.312e+05	-1.882e+05	-2.404e+05	-1.139e+05
2	4	84	24.64	-33.82	10.56	-19.74	-24.99	288.94	-1.499e+05	-1.682e+04	-1.328e+05	-4.772e+04
2	4	91	28.04	-12.70	27.88	-12.55	-2.54	1.141e+05	-2.692e+04	1.121e+05	-2.492e+04	-1.665e+04

2	4	98	28.65	-14.80	28.35	-14.50	3.60	1.046e+05	-2.801e+04	1.010e+05	-2.438e+04	2.163e+04
2	4	105	23.60	-33.91	9.50	-19.81	24.74	-5909.93	-1.452e+05	-2.335e+04	-1.277e+05	4.609e+04
2	4	112	8.90	-50.95	-31.51	-10.55	28.03	-1.019e+05	-3.308e+05	-1.932e+05	-2.395e+05	1.121e+05
2	4	119	-7.88	-61.13	-60.11	-8.89	7.28	-1.643e+05	-5.262e+05	-4.969e+05	-1.936e+05	9.867e+04
2	4	120	12.42	1.54	9.90	4.06	4.59	6527.98	-5.455e+04	-2.215e+04	-2.588e+04	-3.048e+04
2	4	121	16.77	2.48	2.92	16.33	-2.46	7597.22	-6.387e+04	7571.05	-6.384e+04	-1367.43
2	4	122	6.47	-1.64	3.16	1.67	3.99	5162.48	-5.365e+04	1918.05	-5.041e+04	1.343e+04
2	4	123	-0.90	-14.72	-1.20	-14.42	2.03	-835.03	-1.219e+04	-2414.13	-1.061e+04	-3929.65
2	4	124	14.22	-1.87	10.00	2.36	-7.08	8918.72	-5.281e+04	1279.94	-4.517e+04	2.033e+04
2	4	125	1.66	0.49	0.50	1.66	3.90e-02	2576.82	-4.785e+04	-4.494e+04	-336.38	-1.177e+04
2	4	126	11.32	2.47	3.27	10.52	-2.54	6291.40	-6.004e+04	-1.442e+04	-3.933e+04	3.074e+04
2	4	127	-0.28	-17.07	-4.79	-12.56	7.44	2383.50	-2.179e+04	-9753.24	-9649.53	1.208e+04
2	4	128	-3.06	-13.59	-5.32	-11.33	4.32	-2652.91	-5.678e+04	-3.745e+04	-2.198e+04	2.593e+04
2	4	129	17.54	1.45	3.76	15.23	5.64	1327.88	-6.775e+04	-8693.73	-5.773e+04	-2.433e+04
2	4	130	8.50	1.63	6.88	3.24	-2.92	5380.73	-5.924e+04	-3.939e+04	-1.446e+04	2.981e+04
2	4	131	-0.27	-15.24	-5.18	-10.33	7.03	-408.24	-1.983e+04	-3471.70	-1.677e+04	7078.99
2	4	132	-3.75	-15.94	-15.86	-3.83	0.99	-3898.32	-4.502e+04	-4.501e+04	-3911.66	-740.57
2	4	133	2.77	1.00	2.66	1.11	-0.43	415.86	-4.656e+04	-4.520e+04	-942.37	7871.19
2	4	134	8.22	-4.47	6.26	-2.51	-4.59	6206.34	-3.933e+04	-3.222e+04	-903.24	-1.653e+04
2	4	135	-0.93	-14.92	-11.67	-4.18	-5.91	-544.24	-3.770e+04	-3.336e+04	-4885.15	-1.194e+04
2	4	136	-1.18	-10.19	-4.01	-7.36	4.18	-471.51	-7677.95	-1176.45	-6973.01	2140.82
2	4	137	2.74	-6.27	-5.91	2.38	1.75	2764.17	-3.188e+04	-2.998e+04	857.38	-7901.39
2	4	138	-2.43	-15.37	-10.58	-7.22	-6.25	-7953.09	-5.097e+04	-2.761e+04	-3.132e+04	-2.143e+04
2	4	139	0.47	-9.24	-8.49	-0.28	-2.59	567.03	-3.099e+04	-2.973e+04	-687.70	-6165.64
2	4	140	-0.16	-10.81	-8.31	-2.66	4.52	-134.22	-2.710e+04	-1.801e+04	-9219.61	1.275e+04
2	4	141	0.80	-12.63	-9.43	-2.40	-5.72	-483.86	-1.848e+04	-1.003e+04	-8934.32	-8980.50
2	4	142	3.97	-2.82	-2.30	3.45	-1.81	1659.84	-4.481e+04	-3.079e+04	-1.237e+04	-2.133e+04
2	4	143	0.22	-14.73	-8.59	-5.92	-7.36	-812.67	-2.958e+04	-1.877e+04	-1.162e+04	-1.393e+04
2	4	144	0.20	-13.38	-8.49	-4.69	6.52	8851.71	-2.557e+04	-3463.11	-1.326e+04	1.650e+04
2	4	145	2.49	-12.81	8.21e-02	-10.40	-5.58	1.560e+04	-1.450e+04	1.532e+04	-1.423e+04	-2865.18
2	4	146	0.80	-4.50	-4.36	0.66	0.85	730.76	-4.003e+04	-3.791e+04	-1383.43	9038.81
2	4	147	-0.40	-17.82	-3.26	-14.97	-6.45	-1053.98	-2.006e+04	-3428.07	-1.769e+04	-6283.74
2	4	148	-6.81	-15.62	-6.81	-15.62	-8.54e-03	-1.200e+04	-5.699e+04	-1.530e+04	-5.370e+04	-1.173e+04
2	4	149	1.71	-11.80	1.10	-11.19	-2.79	4661.19	-2409.26	2815.42	-563.49	-3105.41
2	4	150	-3.08	-11.05	-11.04	-3.09	0.22	5408.00	-3.764e+04	-2.983e+04	-2397.70	1.659e+04
2	4	151	-0.59	-19.07	-0.62	-19.03	0.78	-1656.25	-1.993e+04	-2303.04	-1.928e+04	3376.17
2	4	152	5.72	-25.64	-8.08	-11.84	15.56	-5.227e+04	-1.198e+05	-7.628e+04	-9.583e+04	3.234e+04
2	4	153	-1.52	-11.34	-7.77	-5.08	4.72	3065.56	-7.297e+04	-4.593e+04	-2.398e+04	3.640e+04
2	4	154	1.53	-9.77	-9.30	1.07	2.25	-1546.41	-3.449e+04	-3.446e+04	-1576.00	-987.01
2	4	155	1.80	-9.01	-8.99	1.78	-0.46	2571.17	-3.106e+04	-2.651e+04	-1983.28	1.151e+04
2	4	156	0.17	-13.30	-11.52	-1.61	4.56	-188.98	-3.830e+04	-3.428e+04	-4207.75	1.171e+04
2	4	157	2.23	-17.45	-7.89	-7.34	9.84	1.379e+04	-3.028e+04	1786.16	-1.827e+04	1.962e+04
2	4	158	2.85e-02	-18.66	-8.65	-9.98	9.32	-23.04	-3.111e+04	-1.371e+04	-1.743e+04	1.543e+04
2	4	159	1.08	-13.45	-0.74	-11.62	4.82	1.274e+04	-9739.51	1.195e+04	-8954.89	-4125.64
2	4	160	-0.83	-21.63	-2.54	-19.92	5.72	-1658.41	-2.177e+04	-2559.50	-2.087e+04	4160.69
2	4	161	1.90	-15.17	1.58	-14.84	2.33	9196.15	-4477.16	7838.76	-3119.77	4088.70
2	4	162	-0.90	-22.09	-1.39	-21.60	-3.19	-1258.64	-2.274e+04	-3344.22	-2.065e+04	-6359.62
2	4	163	-1.05	-18.99	-1.98	-18.05	-3.99	2805.84	-1.992e+04	2220.65	-1.934e+04	3599.85
2	4	164	-0.99	-17.55	-5.89	-12.65	-7.56	-2072.06	-2.041e+04	-1.307e+04	-9404.78	-8982.86
2	4	165	-0.69	-16.99	-7.91	-9.77	-8.09	-848.34	-2.349e+04	-6775.61	-1.756e+04	-9953.51
2	4	166	-0.19	-14.71	-5.70	-9.19	-7.05	7074.38	-1.781e+04	2392.47	-1.313e+04	-9726.26
2	4	167	8.57e-02	-11.69	-9.41	-2.19	-4.65	-571.91	-3.622e+04	-2.521e+04	-1.158e+04	-1.647e+04
2	4	168	-1.14	-16.00	-12.98	-4.16	-5.98	6458.41	-3.398e+04	-1.400e+04	-1.352e+04	-2.022e+04
2	4	169	1.08	-5.13	-5.12	1.07	0.21	1484.53	-5.144e+04	-5.105e+04	1095.40	-4521.24
2	4	170	-2.16	-12.88	-9.42	-5.62	-5.01	-1.055e+04	-7.728e+04	-6.671e+04	-2.112e+04	-2.436e+04
2	4	171	3.51	-28.60	-11.66	-13.43	-16.03	-6.988e+04	-1.453e+05	-1.038e+05	-1.114e+05	-3.752e+04
2	4	172	7.63	-24.28	-6.38	-10.27	-15.84	-3.057e+04	-9.921e+04	-5.827e+04	-7.150e+04	-3.368e+04
2	4	173	15.25	-23.51	6.17	-14.43	-16.42	5654.77	-7.880e+04	-1.106e+04	-6.209e+04	-3.365e+04
2	4	174	20.44	-20.17	13.74	-13.47	-15.07	2.982e+04	-4.158e+04	2.209e+04	-3.385e+04	-2.218e+04
2	4	175	25.48	-16.73	24.07	-15.32	-7.58	6.926e+04	-1.977e+04	6.569e+04	-1.620e+04	-1.748e+04
2	4	176	26.61	-16.14	26.60	-16.13	0.57	7.376e+04	-7807.55	7.373e+04	-7778.41	1541.60
2	4	177	22.24	-18.30	19.70	-15.76	9.82	5.079e+04	-1.954e+04	4.806e+04	-1.681e+04	1.357e+04
2	4	178	21.07	-20.78	14.50	-14.21	15.23	2.894e+04	-4.576e+04	1.941e+04	-3.623e+04	2.491e+04
2	4	179	11.47	-23.04	-0.59	-10.98	16.46	-1825.21	-8.079e+04	-2.610e+04	-5.652e+04	3.643e+04
2	4	180	2.19	-14.47	-6.42	-5.86	8.33	1.220e+04	-7.044e+04	-2.107e+04	-3.717e+04	4.053e+04
2	4	181	2.66	-15.76	-8.30	-4.81	9.05	1.162e+04	-6.065e+04	-2.986e+04	-1.918e+04	3.574e+04
2	4	182	0.43	-10.44	-9.79	-0.21	2.57	7029.79	-5.011e+04	-3.934e+04	-3743.84	2.235e+04
2	4	183	-2.18	-9.15	-6.72	-4.61	3.32	1.390e+04	-4.705e+04	-2.368e+04	-9468.99	2.963e+04
2	4	184	2.78	-16.54	-9.83	-3.94	9.20	2.071e+04	-4.986e+04	-8998.19	-2.015e+04	3.484e+04
2	4	185	0.95	-13.91	-7.93	-5.03	7.29	1.182e+04	-4.015e+04	-6652.16	-2.167e+04	2.488e+04
2	4	186	3.09	-16.06	-3.19	-9.78	8.99	1.623e+04	-3.303e+04	1.193e+04	-2.873e+04	1.390e+04
2	4	187	2.34	-15.02	-1.81	-10.87	7.41	1.423e+04	-2.248e+04	1.137e+04	-1.962e+04	9836.72
2	4	188	5.90	-18.87	3.04	-16.01	7.92	2.373e+04	-2.466e+04	2.335e+04	-2.428e+04	4299.25
2	4	189	2.87	-16.08	1.68	-14.89	4.61	1.134e+04	-1.688e+04	1.122e+04	-1.676e+04	1862.75
2	4	190	3.24	-17.80	3.22	-17.79	0.56	7273.90	-1.595e+04	7092.24	-1.577e+04	-2045.84
2	4	191	3.78	-17.43	3.57	-17.22	-2.09	1.207e+04	-1.744e+04	1.186e+04	-1.723e+04	2497.24
2	4	192	3.65	-18.61	0.59	-15.54	-7.67	1.259e+04	-2.397e+04	1.177e+04	-2.315e+04	-5401.62



2	4	193	1.44	-14.12	-3.16	-9.52	-7.10	1.032e+04	-2.652e+04	6298.40	-2.250e+04	-1.148e+04
2	4	194	3.12	-16.27	-5.43	-7.73	-9.63	1.500e+04	-3.634e+04	7815.26	-2.916e+04	-1.781e+04
2	4	195	0.80	-11.48	-6.60	-4.08	-6.01	1.544e+04	-3.956e+04	-5636.26	-1.849e+04	-2.674e+04
2	4	196	1.91	-17.15	-11.72	-3.53	-8.61	2.288e+04	-5.672e+04	-2.223e+04	-1.161e+04	-3.944e+04
2	4	197	-2.10	-8.77	-6.00	-4.87	-3.29	1.843e+04	-4.813e+04	-2.395e+04	-5752.98	-3.201e+04
2	4	198	0.77	-12.03	-10.58	-0.69	-4.06	1.569e+04	-6.303e+04	-4.667e+04	-675.14	-3.194e+04
2	4	199	-0.12	-16.91	-9.04	-7.99	-8.38	3509.58	-7.818e+04	-5.402e+04	-2.065e+04	-3.728e+04
2	4	200	0.79	-17.72	-8.96	-7.97	-9.24	-6378.07	-9.915e+04	-6.158e+04	-4.396e+04	-4.554e+04
2	4	201	8.13	-18.17	7.73	-17.77	3.22	1.442e+04	-1.512e+04	1.442e+04	-1.512e+04	217.05
2	4	202	9.81	-19.05	9.02	-18.26	-4.71	2.230e+04	-1.450e+04	2.227e+04	-1.448e+04	960.37
2	4	203	6.08	-16.93	1.25	-12.10	-9.36	1.443e+04	-1.938e+04	1.291e+04	-1.786e+04	-7002.71
2	4	204	3.84	-15.21	-4.85	-6.52	-9.49	2.295e+04	-3.926e+04	6609.09	-2.292e+04	-2.737e+04
2	4	205	-0.66	-10.06	-8.02	-2.70	3.88	1.600e+04	-4.449e+04	-1.526e+04	-1.323e+04	3.023e+04
2	4	206	1.72	-15.76	-5.43	-8.60	8.60	2.054e+04	-5.371e+04	-2355.36	-3.082e+04	3.429e+04
2	4	207	5.12	-15.59	-2.67	-7.80	10.03	1.900e+04	-3.755e+04	1.185e+04	-3.040e+04	1.879e+04
2	4	208	5.18	-15.83	-3.27	-7.38	10.31	2.369e+04	-4.247e+04	1.151e+04	-3.028e+04	2.565e+04
2	4	209	5.44	-16.82	-9.81e-02	-11.28	9.62	2.099e+04	-3.381e+04	1.625e+04	-2.906e+04	1.542e+04
2	4	210	8.05	-16.79	4.44	-13.19	8.75	2.897e+04	-2.553e+04	2.776e+04	-2.432e+04	8037.15
2	4	211	10.48	-17.99	10.28	-17.79	2.34	2.445e+04	-1.039e+04	2.440e+04	-1.033e+04	1436.33
2	4	212	8.93	-17.18	4.03	-12.28	-10.19	2.766e+04	-3.162e+04	2.580e+04	-2.977e+04	-1.033e+04
2	4	213	7.96	-17.12	7.42	-16.59	-3.62	2.000e+04	-1.018e+04	1.985e+04	-1.003e+04	-2113.55
2	4	214	4.66	-16.82	-1.70	-10.46	-9.81	2.362e+04	-3.930e+04	1.709e+04	-3.277e+04	-1.919e+04
2	4	215	-0.29	-13.13	-9.42	-4.00	-5.82	1.533e+04	-6.450e+04	-3.034e+04	-1.883e+04	-3.949e+04
2	4	216	2.95	-16.75	-5.10	-8.70	-9.68	1.566e+04	-5.294e+04	-7153.80	-3.013e+04	-3.232e+04
2	4	217	8.29e-02	-14.16	-6.49	-7.58	-7.10	2236.77	-7.806e+04	-4.110e+04	-3.472e+04	-4.002e+04
2	4	218	4.97	-14.79	-5.03	-4.79	9.88	2.119e+04	-5.752e+04	327.72	-3.665e+04	3.474e+04
2	4	219	15.43	-17.72	10.91	-13.21	11.37	4.056e+04	-2.972e+04	3.751e+04	-2.667e+04	1.432e+04
2	4	220	12.45	-16.21	6.35	-10.12	-11.73	3.924e+04	-3.909e+04	3.337e+04	-3.322e+04	-2.062e+04
2	4	221	15.91	-17.76	13.57	-15.42	-8.56	3.511e+04	-2.646e+04	3.430e+04	-3.565e+04	-7026.98
2	4	222	20.74	-17.90	20.69	-17.85	-1.41	5.534e+04	-4407.93	5.534e+04	-4405.33	394.10
2	4	223	11.54	-18.41	10.19	-17.07	-6.20	2.688e+04	-1.974e+04	2.683e+04	-1.970e+04	1418.05
2	4	224	9.12	-16.90	5.84	-13.62	-8.64	2.586e+04	-2.411e+04	2.511e+04	-2.335e+04	-6081.08
2	4	225	13.50	-19.22	13.50	-19.22	-0.16	3.106e+04	-1.612e+04	3.036e+04	-1.425e+04	-5716.08
2	4	226	7.39	-16.65	-1.04	-8.22	-11.47	2.070e+04	-4.615e+04	1.018e+04	-3.563e+04	-2.434e+04
2	4	227	9.79	-16.88	2.77	-9.86	11.74	3.032e+04	-4.111e+04	2.431e+04	-3.510e+04	1.981e+04
2	4	228	9.80	-17.27	4.72	-12.19	10.57	2.662e+04	-3.046e+04	2.441e+04	-2.825e+04	1.101e+04
2	4	229	11.70	-19.83	1.81	-9.93	-14.63	2.147e+04	-6.841e+04	5292.53	-5.223e+04	-3.453e+04
2	4	230	13.75	-18.91	12.71	-17.86	5.75	2.993e+04	-2.020e+04	2.981e+04	-2.009e+04	2381.42
2	4	231	4.81	-16.30	-4.90	-6.59	-10.52	1.435e+04	-5.123e+04	-2920.42	-3.395e+04	-2.889e+04
2	4	232	18.64	-18.30	17.78	-17.45	5.55	5.026e+04	-1.152e+04	4.981e+04	-1.107e+04	5272.51
2	4	233	5.25	-16.23	4.21	-15.19	-4.61	1.941e+04	-1.673e+04	1.902e+04	-1.634e+04	-3752.72
2	4	234	10.02	-17.14	9.73	-16.85	-2.76	1.359e+04	-4270.65	1.337e+04	-4052.38	1962.41
2	4	235	-0.15	-10.98	-9.13	-2.00	-4.07	1.363e+04	-3.448e+04	-7389.62	-1.346e+04	-2.386e+04
2	4	236	4.71	-19.47	4.27	-19.03	3.25	1.821e+04	-2.412e+04	1.821e+04	-2.411e+04	-243.82
2	4	237	11.65	-17.25	7.51	-13.11	10.13	2.977e+04	-2.561e+04	2.847e+04	-2.431e+04	8374.17
2	4	238	7.64	-18.17	3.69	-14.22	9.30	1.637e+04	-2.367e+04	1.621e+04	-2.351e+04	2545.11
2	4	239	3.79	-18.99	-2.94	-12.26	-10.40	1.480e+04	-2.870e+04	7008.07	-2.091e+04	-1.668e+04
2	4	240	21.18	-17.67	19.94	-16.43	-6.82	5.593e+04	-1.503e+04	5.550e+04	-1.460e+04	-5515.50
2	4	241	17.60	-19.36	11.58	-13.33	-13.66	4.482e+04	-3.265e+04	3.865e+04	-2.649e+04	-2.096e+04
2	4	242	8.52	-16.57	6.40	-14.45	6.99	2.421e+04	-1.605e+04	2.397e+04	-1.581e+04	3133.53
2	4	243	13.83	-19.04	7.16	-12.37	13.22	2.703e+04	-4.846e+04	2.225e+04	-4.369e+04	1.838e+04
2	4	244	-0.80	-14.21	-12.66	-2.35	4.29	1.588e+04	-6.308e+04	-5.300e+04	5797.56	2.635e+04
2	4	245	1.32	-13.54	-8.46	-3.75	-7.04	1.003e+04	-6.614e+04	-2.186e+04	-3.425e+04	-3.758e+04
2	4	246	3.55	-15.32	-4.10	-7.67	-9.26	1.586e+04	-5.047e+04	-2522.65	-3.208e+04	-2.969e+04
2	4	247	4.53	-11.42	-8.85	1.97	5.86	3666.17	-3.619e+04	-3.617e+04	3646.51	885.16
2	4	248	2.28	-1.32	-1.30	2.27	-0.22	2348.38	-5.714e+04	-5.047e+04	-4312.04	1.876e+04
2	4	249	9.38	-2.41	8.82	-1.85	2.52	5415.47	-5.123e+04	-3.794e+04	-7871.33	2.400e+04
2	4	250	0.83	-14.92	-14.21	0.11	-3.28	-1.347e+04	-5.271e+04	-4.468e+04	-2.151e+04	1.584e+04
2	4	251	15.00	0.66	8.62	7.04	-7.12	3885.42	-6.857e+04	-2.538e+04	-3.931e+04	3.555e+04
2	4	252	-5.47	-19.44	-12.46	-12.44	6.98	-1.452e+04	-6.788e+04	-3.486e+04	-4.754e+04	2.591e+04
2	4	253	16.99	2.72	3.57	16.15	-3.38	3457.99	-8.014e+04	-4279.78	-7.240e+04	2.423e+04
2	4	254	-5.08	-15.37	-7.90	-12.55	-4.59	-1.586e+04	-6.890e+04	-1.631e+04	-6.845e+04	4852.47
2	4	255	17.00	1.51	3.63	14.88	5.33	6121.81	-7.158e+04	5610.29	-7.107e+04	-6283.74
2	4	256	8.82	-1.16	-0.36	8.02	-2.70	4446.23	-6.646e+04	-2039.20	-5.998e+04	-2.044e+04
2	4	257	12.56	-4.53	9.78	-1.75	6.31	8394.77	-5.808e+04	-5061.18	-4.463e+04	-2.671e+04
2	4	258	11.12	1.70	3.83	8.99	3.94	4685.59	-7.123e+04	-2.643e+04	-4.011e+04	-3.733e+04
2	4	259	-6.41	-13.23	-8.74	-10.90	-3.24	-7882.08	-6.347e+04	-5.281e+04	-1.854e+04	-2.188e+04
2	4	260	7.17	1.89	5.80	3.27	2.32	2593.60	-6.640e+04	-5.388e+04	-9926.63	-2.659e+04
2	4	261	-1.99	-18.32	-18.30	-2.02	-0.65	-3331.99	-5.294e+04	-5.292e+04	-3344.36	783.47
2	4	262	3.51	-1.46	1.51	0.54	-2.44	3588.25	-4.734e+04	-4.704e+04	3289.67	-3887.94
2	4	263	-3.14	-45.18	-36.00	-12.31	-17.37	-1.415e+05	-2.684e+05	-2.327e+05	-1.773e+05	-5.707e+04
2	4	264	-0.86	-49.79	-46.26	-4.38	-12.65	-1.595e+05	-2.443e+05	-2.401e+05	-1.638e+05	-1.846e+04
2	4	265	-0.53	-34.37	-24.09	-10.80	-15.56	-9.965e+04	-1.800e+05	-1.603e+05	-1.193e+05	-3.457e+04
2	4	266	-3.23	-21.50	-12.67	-12.06	-9.13	-3.291e+04	-1.204e+05	-1.194e+05	-3.395e+04	-9467.84
2	4	267	-1.26	-13.89	-12.68	-2.46	-3.71	4582.98	-8.184e+04	-7.817e+04	918.73	-1.741e+04
2	4	268	-0.63	-4.12	-2.98	-1.76	1.64	5930.56	-5.740e+04	-5.726e+04	5795.17	-2925.03
2	4	269	-2.67	-9.26	-8.81	-3.12	-1.67	1.276e+04	-7.442e+04	-7.438e+04	1.271e+04	-2060.77

2	4	270	-0.47	-6.25	-1.79	-4.93	-2.43	5580.65	-6.696e+04	-6.399e+04	2612.55	1.437e+04
2	4	271	-2.44	-4.50	-4.46	-2.48	0.28	4227.19	-7.979e+04	-6.882e+04	-6739.89	2.830e+04
2	4	272	-1.41	-5.91	-5.35	-1.96	-1.48	-67.60	-8.544e+04	-5.005e+04	-3.545e+04	4.206e+04
2	4	273	-0.59	-8.61	-8.41	-0.79	-1.25	2469.65	-8.905e+04	-3.789e+04	-4.869e+04	4.544e+04
2	4	274	0.27	-14.52	-10.98	-3.27	-6.31	-7408.37	-8.577e+04	-2.598e+04	-6.720e+04	3.332e+04
2	4	275	-2.22	-5.69	-5.67	-2.24	0.24	-917.36	-8.831e+04	-1.324e+04	-7.599e+04	3.042e+04
2	4	276	0.10	-3.50	-3.18	-0.22	-1.03	1095.99	-9.319e+04	1095.87	-9.319e+04	-107.57
2	4	277	0.75	-7.56	-4.57	-2.23	3.99	-1180.65	-8.929e+04	-2229.12	-8.824e+04	-9554.24
2	4	278	2.72	-9.96	-7.82	0.58	4.75	-4873.71	-8.890e+04	-2.698e+04	-6.679e+04	-3.700e+04
2	4	279	-7.70e-02	-7.74	-7.55	-0.27	-1.20	3407.70	-8.660e+04	-4.905e+04	-3.414e+04	-4.438e+04
2	4	280	-0.90	-3.42	-3.02	-1.30	0.91	2779.05	-8.336e+04	-5.516e+04	-2.542e+04	-4.042e+04
2	4	281	-1.26	-9.65	-9.58	-1.32	-0.74	8016.93	-8.059e+04	-7.499e+04	2414.76	-2.156e+04
2	4	282	-1.78	-9.91	-4.33	-7.36	3.77	5003.87	-7.085e+04	-7.047e+04	4625.50	-5343.88
2	4	283	-0.19	-11.84	-11.50	-0.53	1.95	1.469e+04	-7.447e+04	-7.377e+04	1.399e+04	7876.99
2	4	284	-1.61	-9.15	-8.20	-2.56	2.50	9566.80	-6.571e+04	-6.099e+04	4846.80	1.825e+04
2	4	285	-3.45	-12.57	-9.12	-6.90	4.42	229.56	-8.194e+04	-7.041e+04	-1.130e+04	2.854e+04
2	4	286	-1.21	-21.83	-13.10	-9.94	10.19	-2.684e+04	-1.185e+05	-1.023e+05	-4.310e+04	3.503e+04
2	4	287	3.29	-32.01	-17.07	-11.64	17.44	-7.189e+04	-1.581e+05	-1.234e+05	-1.067e+05	4.232e+04
2	4	288	-1.61	-46.59	-39.23	-8.97	16.64	-1.438e+05	-2.643e+05	-2.388e+05	-1.693e+05	4.923e+04
2	4	289	-5.19	-51.59	-50.15	-6.63	8.06	-1.709e+05	-3.341e+05	-3.228e+05	-1.823e+05	4.144e+04
2	4	290	-6.72	-50.03	-50.03	-6.72	0.22	-1.724e+05	-3.283e+05	-3.282e+05	-1.726e+05	-5322.69
2	4	291	2.95	-21.08	-21.04	2.90	1.08	-3.108e+04	-9.921e+04	-4.179e+04	-8.851e+04	2.480e+04
2	4	292	3.98	-20.69	-20.17	3.46	-3.54	-2.577e+04	-1.001e+05	-4.436e+04	-8.149e+04	-3.219e+04
2	4	293	4.57	-19.20	-7.02	-7.61	11.88	-3.100e+04	-8.794e+04	-5.111e+04	-6.783e+04	-2.721e+04
2	4	294	2.84	-21.98	-15.04	-4.10	11.14	-8939.86	-8.806e+04	-8.602e+04	-1.098e+04	-1.254e+04
2	4	295	3.12	-20.49	-7.89	-9.49	-11.78	-7955.48	-7.756e+04	-7.713e+04	-8385.31	-5452.70
2	4	296	-4.57	-16.20	-9.06	-11.71	-5.66	-1.677e+04	-8.869e+04	-8.837e+04	-1.710e+04	4815.59
2	4	297	-3.44	-16.78	-10.08	-10.14	-6.67	-2.618e+04	-9.554e+04	-7.396e+04	-4.776e+04	3.211e+04
2	4	298	-0.86	-20.22	-12.34	-8.74	-9.51	-3.220e+04	-1.011e+05	-9.664e+04	-3.670e+04	1.704e+04
2	4	299	0.62	-18.26	-17.58	-6.59e-02	-3.53	-1.174e+04	-9.472e+04	-9.109e+04	-1.537e+04	1.698e+04
2	4	300	1.60	-25.28	-24.88	1.19	-3.26	-2.552e+04	-1.036e+05	-7.379e+04	-5.533e+04	3.793e+04
2	4	301	-1.42	-23.08	-21.57	-2.93	-5.52	-3.554e+04	-1.003e+05	-3.633e+04	-9.950e+04	-7105.21
2	4	302	-0.75	-24.96	-20.87	-4.84	9.07	-4.065e+04	-9.534e+04	-4.081e+04	-9.518e+04	-2983.36
2	4	303	-1.12	-26.19	-25.13	-2.19	5.06	-3.303e+04	-1.062e+05	-9.145e+04	-4.782e+04	-2.940e+04
2	4	304	-4.04	-16.48	-11.40	-9.12	6.11	-2.458e+04	-9.203e+04	-7.810e+04	-3.852e+04	-2.730e+04
2	4	305	0.88	-21.43	-11.67	-8.89	11.07	-5349.05	-8.824e+04	-8.209e+04	-1.150e+04	2.172e+04
2	4	306	-4.25	-11.44	-11.17	-4.52	1.36	-8230.62	-8.738e+04	-8.716e+04	-8457.26	-4229.37
2	4	307	0.99	-21.95	-13.86	-7.10	-10.96	-4.784e+04	-1.033e+05	-1.028e+05	-4.842e+04	5629.94
2	4	308	-2.73	-18.42	-9.89	-11.26	7.81	-3.111e+04	-1.043e+05	-1.010e+05	-3.433e+04	1.499e+04
2	4	309	-6.28	-36.15	-34.52	-7.91	-6.77	-1.097e+05	-1.679e+05	-1.619e+05	-1.156e+05	1.763e+04
2	4	310	-4.11	-47.59	-46.67	-5.03	6.26	-1.531e+05	-1.737e+05	-1.712e+05	-1.555e+05	6670.34
2	4	311	2.90	-27.90	-27.76	2.76	2.09	-6.692e+04	-1.190e+05	-7.812e+04	-1.078e+05	-2.140e+04
2	4	312	1.03	-29.04	-21.90	-6.11	12.79	-6.299e+04	-1.253e+05	-9.792e+04	-9.034e+04	-3.091e+04
2	4	313	-5.06	-34.60	-32.41	-7.25	7.74	-8.706e+04	-1.674e+05	-1.661e+05	-8.830e+04	-9925.11
2	4	314	-2.61	-32.73	-31.59	-3.76	5.76	-1.251e+05	-1.658e+05	-1.468e+05	-1.442e+05	-2.032e+04
2	4	315	2.87	-28.98	-28.41	2.30	4.24	-8.203e+04	-1.252e+05	-8.203e+04	-1.252e+05	605.40
2	4	316	-0.30	-22.02	-13.82	-8.50	10.53	-5.947e+04	-1.189e+05	-1.107e+05	-6.763e+04	-2.044e+04
2	4	317	-0.26	-28.53	-21.95	-6.85	-11.95	-6.697e+04	-1.352e+05	-1.250e+05	-7.708e+04	2.424e+04
2	4	318	-0.29	-25.91	-22.29	-3.92	-8.93	-6.045e+04	-1.212e+05	-9.967e+04	-8.199e+04	2.906e+04
2	4	319	-5.43	-30.99	-23.52	-12.90	11.62	-9.499e+04	-1.636e+05	-1.612e+05	-9.740e+04	1.262e+04
2	4	320	-5.07	-15.54	-9.10	-11.50	5.09	-2.920e+04	-1.104e+05	-1.103e+05	-2.921e+04	-671.93
2	4	321	1.49	-29.82	-29.23	0.90	-4.26	-8.350e+04	-1.351e+05	-9.532e+04	-1.233e+05	2.169e+04
2	4	322	-0.75	-21.01	-11.15	-10.61	10.13	-3.926e+04	-1.130e+05	-1.113e+05	-4.098e+04	-1.114e+04
2	4	323	-7.83	-38.74	-35.87	-10.71	-8.98	-1.501e+05	-1.588e+05	-1.577e+05	-1.111e+05	2821.84
2	4	324	3.23	-9.70	-4.45	-2.02	6.35	2755.02	-6.699e+04	-5.102e+04	-1.322e+04	-2.931e+04
2	4	325	-5.15	-14.34	-14.18	-5.31	1.19	-6.720e+04	-1.108e+05	-6.938e+04	-1.086e+05	-9494.06
2	4	326	7.73	-9.20	-8.99	7.53	1.84	-3069.14	-7.917e+04	-1.422e+04	-6.802e+04	-2.691e+04
2	4	327	12.59	-15.91	-15.73	12.41	2.21	-2849.35	-7.442e+04	-6821.37	-7.044e+04	1.639e+04
2	4	328	1.39	-27.17	-24.48	-1.30	-8.35	-7.886e+04	-1.265e+05	-1.011e+05	-1.043e+05	2.378e+04
2	4	329	4.34	-18.07	-16.30	2.57	-6.04	-3.936e+04	-9.102e+04	-6.211e+04	-6.826e+04	2.565e+04
2	4	330	-7.15	-45.08	-45.00	-7.23	1.73	-1.580e+05	-2.166e+05	-2.163e+05	-1.583e+05	-4021.98
2	4	331	1.13	-48.62	-37.31	-10.18	20.85	-1.238e+05	-1.969e+05	-1.928e+05	-1.280e+05	1.694e+04
2	4	332	-5.31	-22.49	-17.65	-10.15	-7.73	-5.038e+04	-1.054e+05	-6.538e+04	-9.042e+04	2.451e+04
2	4	333	-8.58	-29.03	-23.87	-13.74	-8.89	-1.171e+05	-1.676e+05	-1.676e+05	-1.171e+05	345.32
2	4	334	1.30	-7.61	1.13	-7.44	1.22	1.170e+04	-4.521e+04	-4.156e+04	8044.75	-1.395e+04
2	4	335	-2.61	-12.90	-7.64	-7.87	5.14	-1.794e+04	-8.400e+04	-8.276e+04	-1.918e+04	8974.15
2	5	1	-0.55	-8.43	-6.72	-2.26	-3.25	4.308e+04	-3.807e+04	-2.378e+04	-2.878e+04	-3.091e+04
2	5	2	1.81	-18.71	-8.85	-8.05	-10.26	4.753e+04	-5.736e+04	-5.704e+04	4.722e+04	-5746.98
2	5	3	8.24	-8.24	-0.21	0.21	-8.24	3.431e+04	-5.468e+04	-3.635e+04	1.598e+04	3.599e+04
2	5	4	14.86	-20.52	-15.00	9.34	-12.84	2.799e+04	-4.974e+04	-4040.79	-1.771e+04	3.826e+04
2	5	5	12.26	-14.03	-14.02	12.25	-0.67	3.702e+04	-5.296e+04	3.228e+04	-4.823e+04	2.088e+04
2	5	6	13.42	-19.12	-18.53	12.83	4.33	3.137e+04	-5.252e+04	2.329e+04	-4.445e+04	-2.474e+04
2	5	7	6.91	-49.92	-49.12	6.11	6.70	-1.206e+05	-1.397e+05	-1.257e+05	-1.346e+05	-8515.54
2	5	8	4.10	-45.86	-42.97	1.21	-11.67	-9.735e+04	-1.527e+05	-1.382e+05	-1.118e+05	2.433e+04
2	5	9	3.24	-36.84	-23.00	-10.60	-19.05	-4.451e+04	-1.503e+05	-1.500e+05	-4.480e+04	-5612.32
2	5	10	4.19	-29.81	-15.06	-10.56	-16.85	9815.94	-1.257e+05	-9.347e+04	-2.238e+04	-5.767e+04
2	5	11	40.20	-63.02	-10.10	-12.71	-51.59	-2.242e+04	-2.485e+05	-7.953e+04	-1.914e+05	-9.824e+04

2	5	12	9.32	-83.57	-76.03	1.77	-25.38	-1.554e+05	-5.610e+05	-4.349e+05	-2.815e+05	-1.878e+05
2	5	13	-12.03	-79.73	-79.73	-12.03	0.49	-2.036e+05	-6.638e+05	-6.638e+05	-2.036e+05	20.28
2	5	14	8.35	-82.30	-74.76	0.81	25.04	-1.591e+05	-5.543e+05	-4.303e+05	-2.831e+05	1.834e+05
2	5	15	2.85	-44.10	-34.61	-6.65	18.86	-7.926e+04	-1.580e+05	-1.527e+05	-8.456e+04	-1.972e+04
2	5	16	10.85	-21.84	-14.61	3.62	13.56	3.157e+04	-5.633e+04	-1.501e+04	-9753.24	-4.387e+04
2	5	17	41.88	-62.61	-9.89	-10.84	52.25	-2.589e+04	-2.535e+05	-8.047e+04	-1.989e+05	9.718e+04
2	5	18	8.37	-23.19	-6.64	-8.18	15.76	4.432e+04	-8.730e+04	-2.012e+04	-2.285e+04	6.579e+04
2	5	19	3.82	-30.69	-18.20	-8.68	16.58	-2.019e+04	-1.352e+05	-1.260e+05	-2.935e+04	3.114e+04
2	5	20	2.85	-13.28	-8.43	-2.00	7.40	4.316e+04	-5.847e+04	-4.740e+04	3.209e+04	-3.166e+04
2	5	21	2.92	-10.20	-0.62	-6.66	5.82	4.233e+04	-4.225e+04	-4.052e+04	4.059e+04	1.200e+04
2	5	22	-2.40	-10.61	-8.45	-4.57	3.62	4.143e+04	-3.982e+04	-1.904e+04	2.064e+04	3.545e+04
2	5	23	3.75	-16.39	-7.40	-5.25	10.01	6.055e+04	-2.939e+04	3.135e+04	-194.58	4.211e+04
2	5	24	4.14	-21.55	-8.88	-8.53	12.85	3.335e+04	-1.685e+04	3.011e+04	-1.360e+04	1.235e+04
2	5	25	20.48	-25.32	4.57	-9.41	21.81	7.030e+04	-3.404e+04	5.669e+04	-2.043e+04	3.514e+04
2	5	26	63.02	-30.01	55.34	-22.34	25.60	1.792e+05	-3.096e+04	1.549e+05	-6636.21	6.723e+04
2	5	27	29.64	-25.27	25.62	-21.25	14.30	8.711e+04	1.990e+04	8.704e+04	1.998e+04	-2260.57
2	5	28	9.90	-26.90	3.81	-20.81	13.68	4.111e+04	-1669.07	4.111e+04	-1669.03	-37.39
2	5	29	8.53	-26.89	8.24	-26.60	3.19	2.229e+04	7150.74	1.828e+04	1.116e+04	-6676.73
2	5	30	32.60	-26.92	31.93	-26.25	-6.27	9.324e+04	3.646e+04	9.324e+04	3.646e+04	-604.67
2	5	31	57.97	-9.37	57.96	-9.37	-0.46	2.643e+05	4.419e+04	2.643e+05	4.419e+04	-128.35
2	5	32	60.12	-32.36	51.35	-23.58	-27.10	1.653e+05	-3.039e+04	1.402e+05	-5207.09	-6.553e+04
2	5	33	26.99	-24.68	16.69	-14.39	-20.64	8.557e+04	-5296.85	8.397e+04	-3699.54	-1.194e+04
2	5	34	7.74	-26.60	-1.56	-17.30	-15.26	2.814e+04	-6487.87	2.771e+04	-6055.51	-3844.98
2	5	35	14.49	-28.74	13.29	-27.55	-7.08	4.340e+04	7406.35	4.296e+04	7848.05	3962.69
2	5	36	5.72	-17.51	-5.59	-6.19	-11.61	4.565e+04	-1.442e+04	4.220e+04	-1.098e+04	-1.397e+04
2	5	37	13.63	-20.52	-1.78	-5.11	-16.99	5.705e+04	-5.636e+04	2.857e+04	-2.788e+04	-4.919e+04
2	5	38	0.57	-13.24	-10.05	-2.62	-5.82	4.336e+04	-3.009e+04	9584.73	3678.84	-3.660e+04
2	5	70	-5.26	-94.93	-93.08	-7.11	-12.74	-2.124e+05	-6.918e+05	-6.528e+05	-2.514e+05	-1.310e+05
2	5	77	26.59	-80.19	-46.94	-6.66	-49.45	-9.972e+04	-4.223e+05	-2.404e+05	-2.815e+05	-1.600e+05
2	5	84	52.63	-51.56	25.56	-24.50	-45.69	7.258e+04	-1.579e+05	2.534e+04	-1.107e+05	-9.304e+04
2	5	91	61.77	-16.02	61.20	-15.45	-6.63	2.788e+05	6855.60	2.705e+05	1.516e+04	-4.679e+04
2	5	98	61.74	-19.32	60.80	-18.37	8.70	2.606e+05	5087.15	2.481e+05	1.755e+04	5.503e+04
2	5	105	50.99	-51.54	24.02	-24.57	45.14	6.327e+04	-1.531e+05	1.621e+04	-1.061e+05	8.927e+04
2	5	112	24.30	-79.59	-47.45	-7.84	48.02	-1.075e+05	-4.226e+05	-2.466e+05	-2.834e+05	1.565e+05
2	5	119	-5.84	-96.95	-95.45	-7.34	11.59	-2.098e+05	-7.147e+05	-6.772e+05	-2.474e+05	1.325e+05
2	5	120	22.72	2.17	17.00	7.90	9.21	9248.43	-6.500e+04	-2.467e+04	-3.109e+04	-3.699e+04
2	5	121	30.50	3.67	4.17	30.00	-3.63	1.089e+04	-7.950e+04	1.083e+04	-7.943e+04	-2478.65
2	5	122	11.38	1.65	4.76	8.26	4.54	7959.48	-6.751e+04	3237.43	-6.279e+04	1.828e+04
2	5	123	-2.58	-21.91	-2.75	-21.74	1.80	6450.18	-1.086e+04	-3435.91	-971.07	-8565.46
2	5	124	25.13	-1.23	15.56	8.34	-12.68	1.261e+04	-6.468e+04	4226.19	-5.630e+04	2.403e+04
2	5	125	2.93	1.46	2.82	1.57	-0.38	3132.92	-5.520e+04	-5.171e+04	-359.69	-1.384e+04
2	5	126	21.24	3.85	6.59	18.50	-6.34	8854.10	-7.425e+04	-1.777e+04	-4.762e+04	3.878e+04
2	5	127	-0.76	-28.44	-10.03	-19.18	13.06	5559.33	-1.943e+04	-1.273e+04	-1139.71	1.107e+04
2	5	128	-3.67	-14.72	-5.77	-12.62	4.33	-3212.48	-7.237e+04	-4.879e+04	-2.679e+04	3.278e+04
2	5	129	31.21	2.02	6.14	27.08	10.17	2120.87	-8.461e+04	-1.064e+04	-7.185e+04	-3.072e+04
2	5	130	15.92	2.32	12.73	5.51	-5.76	7427.75	-7.166e+04	-4.756e+04	-1.668e+04	3.641e+04
2	5	131	-1.35	-25.58	-8.61	-18.31	11.10	-400.47	-1.282e+04	-735.71	-1.248e+04	2012.60
2	5	132	-3.43	-18.96	-18.88	-3.52	-1.13	-1962.49	-5.781e+04	-5.725e+04	-2525.59	-5579.49
2	5	133	5.51	1.12	5.31	1.32	-0.92	501.06	-5.200e+04	-5.066e+04	-835.82	8270.29
2	5	134	13.97	-5.24	12.31	-3.57	-5.41	8334.03	-4.369e+04	-3.453e+04	-822.03	-1.981e+04
2	5	135	0.65	-18.00	-12.54	-4.81	-8.49	3209.78	-4.549e+04	-3.577e+04	-6510.08	-1.946e+04
2	5	136	-0.73	-10.63	-4.13	-7.23	4.70	8816.99	-4858.06	7457.21	-3498.28	-4092.20
2	5	137	3.31	-9.16	-8.60	2.75	2.58	3113.85	-3.058e+04	-2.873e+04	1265.08	-7673.07
2	5	138	-2.09	-17.35	-13.78	-5.66	-6.46	-1.027e+04	-6.515e+04	-3.781e+04	-3.761e+04	-2.744e+04
2	5	139	0.39	-14.11	-13.81	9.36e-02	-2.06	464.89	-3.101e+04	-3.053e+04	-17.61	-3867.12
2	5	140	-0.76	-18.37	-14.25	-4.88	7.46	-1084.53	-2.172e+04	-1.427e+04	-8530.64	9908.50
2	5	141	3.55e-02	-17.72	-13.01	-4.68	-7.84	-341.11	-1.325e+04	-5220.71	-8369.71	-6259.10
2	5	142	5.84	0.50	0.50	5.83	-0.19	2515.14	-5.370e+04	-3.740e+04	-1.378e+04	-2.551e+04
2	5	143	-0.30	-25.24	-15.61	-9.93	-12.15	-1727.01	-2.640e+04	-1.922e+04	-8906.82	-1.121e+04
2	5	144	2.87	-15.39	-6.98	-5.53	9.10	1.928e+04	-2.916e+04	7059.35	-1.693e+04	2.104e+04
2	5	145	7.20	-15.59	4.88	-13.27	-6.90	2.848e+04	-1.116e+04	2.841e+04	-1.109e+04	1742.80
2	5	146	0.79	-7.34	-7.11	0.56	1.36	1001.24	-4.181e+04	-3.929e+04	-1519.00	1.008e+04
2	5	147	-1.38	-30.93	-6.38	-25.93	-11.07	-1974.79	-1.051e+04	-2516.87	-9962.96	-2080.93
2	5	148	-9.65	-16.89	-9.77	-16.77	0.93	-1.745e+04	-7.371e+04	-2.185e+04	-6.932e+04	-1.510e+04
2	5	149	4.44	-13.09	3.24	-11.89	-4.42	1.336e+04	6489.60	6986.67	1.286e+04	-1780.04
2	5	150	-2.26	-12.22	-11.57	-2.91	2.44	1.174e+04	-4.477e+04	-3.036e+04	-2667.90	2.462e+04
2	5	151	-1.73	-32.90	-1.85	-32.79	1.89	-1761.47	-1.285e+04	-4511.81	-1.010e+04	4790.11
2	5	152	17.65	-37.17	-7.39	-12.12	27.31	-3.390e+04	-1.393e+05	-7.376e+04	-9.939e+04	5.110e+04
2	5	153	2.00	-14.97	-7.79	-5.18	8.39	1.857e+04	-9.042e+04	-4.371e+04	-2.814e+04	5.394e+04
2	5	154	0.93	-10.18	-10.07	0.82	1.11	-2527.72	-3.532e+04	-3.522e+04	-2626.61	-1797.86
2	5	155	1.86	-12.51	-12.48	1.83	-0.62	3270.45	-2.674e+04	-2.216e+04	-1311.33	1.079e+04
2	5	156	-3.94e-03	-21.21	-19.53	-1.69	5.73	-555.62	-3.814e+04	-3.555e+04	-3146.48	9521.56
2	5	157	6.61	-24.40	-7.04	-10.75	15.39	2.404e+04	-2.935e+04	1.358e+04	-1.889e+04	2.119e+04
2	5	158	-0.17	-31.85	-15.30	-16.72	15.82	-604.11	-2.463e+04	-1.182e+04	-1.341e+04	1.199e+04
2	5	159	4.05	-14.87	2.62	-13.45	5.00	2.905e+04	-5014.63	2.362e+04	414.14	-1.247e+04
2	5	160	-2.04	-36.88	-4.80	-34.12	9.42	-2159.93	-1.034e+04	-2164.53	-1.033e+04	-193.90
2	5	161	5.71	-19.20	4.75	-18.24	4.80	1.761e+04	9470.43	1.364e+04	1.344e+04	4068.15

2	5	162	-2.04	-37.28	-3.14	-36.17	-6.14	-324.23	-1.485e+04	-5529.03	-9648.86	-6966.55
2	5	163	-2.28	-30.67	-2.95	-29.99	-4.32	8073.62	-1.617e+04	2875.22	-1.097e+04	9950.82
2	5	164	-2.41	-26.81	-11.08	-18.14	-11.68	1914.97	-1.652e+04	-1.499e+04	383.47	-5088.31
2	5	165	-1.94	-27.96	-12.77	-17.13	-12.82	-936.22	-1.479e+04	-2351.36	-1.337e+04	-4195.31
2	5	166	1.69	-17.19	-5.53	-9.98	-9.18	1.738e+04	-1.432e+04	1.586e+04	-1.279e+04	-6779.05
2	5	167	-0.57	-19.09	-15.47	-4.19	-7.34	-723.24	-3.254e+04	-2.048e+04	-1.278e+04	-1.544e+04
2	5	168	0.72	-18.42	-12.74	-4.95	-8.74	1.579e+04	-3.894e+04	-5682.23	-1.746e+04	-2.672e+04
2	5	169	1.47	-7.95	-7.79	1.31	1.22	1517.96	-5.639e+04	-5.595e+04	1070.49	-5070.89
2	5	170	0.61	-17.27	-10.47	-6.19	-8.68	-1477.79	-9.815e+04	-7.598e+04	-2.365e+04	-4.064e+04
2	5	171	13.67	-41.91	-13.62	-14.62	-27.79	-6.224e+04	-1.775e+05	-1.170e+05	-1.228e+05	-5.757e+04
2	5	172	21.52	-35.21	-3.28	-10.41	-28.14	-1210.86	-1.104e+05	-4.446e+04	-6.711e+04	-5.338e+04
2	5	173	35.41	-33.11	17.62	-15.32	-30.04	6.007e+04	-7.195e+04	2.963e+04	-4.151e+04	-5.561e+04
2	5	174	43.87	-28.22	32.01	-16.36	-26.72	1.027e+05	-1.842e+04	8.683e+04	-2564.94	-4.085e+04
2	5	175	52.83	-22.77	50.20	-20.15	-13.84	1.706e+05	1.640e+04	1.632e+05	2.375e+04	-3.285e+04
2	5	176	53.90	-21.19	53.89	-21.19	0.70	1.773e+05	3.299e+04	1.773e+05	3.306e+04	3263.20
2	5	177	47.79	-26.27	42.96	-21.44	18.29	1.259e+05	1.386e+04	1.214e+05	1.836e+04	2.201e+04
2	5	178	44.22	-28.77	31.97	-16.53	27.27	1.024e+05	-2.322e+04	8.217e+04	-3042.09	4.612e+04
2	5	179	27.77	-32.69	7.03	-11.96	28.70	4.117e+04	-8.152e+04	4891.23	-4.524e+04	5.599e+04
2	5	180	10.09	-19.42	-5.10	-4.22	14.75	3.886e+04	-7.949e+04	666.12	-4.129e+04	5.533e+04
2	5	181	7.25	-20.85	-7.58	-6.02	14.03	2.780e+04	-7.391e+04	-2.032e+04	-2.580e+04	5.078e+04
2	5	182	0.99	-13.64	-12.96	0.32	3.07	1.188e+04	-5.630e+04	-3.814e+04	-6279.11	3.014e+04
2	5	183	-0.84	-11.39	-6.61	-5.62	5.25	2.505e+04	-5.396e+04	-1.367e+04	-1.524e+04	3.950e+04
2	5	184	6.05	-23.73	-13.63	-4.05	14.10	3.362e+04	-5.706e+04	3665.47	-2.711e+04	4.265e+04
2	5	185	2.32	-18.86	-10.04	-6.50	10.44	2.151e+04	-4.116e+04	7395.18	-2.704e+04	2.618e+04
2	5	186	6.26	-22.93	-3.03	-13.64	13.60	2.876e+04	-3.091e+04	2.752e+04	-2.967e+04	8495.63
2	5	187	5.72	-21.50	-0.14	-15.64	11.19	2.416e+04	-1.447e+04	2.402e+04	-1.432e+04	2353.87
2	5	188	12.89	-27.71	7.75	-22.56	13.50	3.716e+04	-1.612e+04	3.705e+04	-1.601e+04	-2376.86
2	5	189	5.81	-22.88	4.14	-21.21	6.71	1.892e+04	-4955.04	1.800e+04	-4032.07	-4602.47
2	5	190	6.04	-25.95	5.98	-25.89	1.36	1.013e+04	235.12	9330.17	1031.47	-2691.24
2	5	191	7.65	-25.62	7.26	-25.23	-3.57	1.864e+04	-3912.25	1.694e+04	-2213.69	5951.33
2	5	192	7.21	-27.26	2.25	-22.31	-12.09	2.052e+04	-1.530e+04	2.045e+04	-1.523e+04	1577.31
2	5	193	3.23	-19.74	-2.63	-13.88	-10.01	2.007e+04	-2.212e+04	1.951e+04	-2.156e+04	-4834.32
2	5	194	5.69	-23.35	-6.80	-10.87	-14.38	2.689e+04	-3.589e+04	2.355e+04	-3.255e+04	-1.409e+04
2	5	195	2.49	-14.39	-6.50	-5.41	-8.42	2.799e+04	-4.277e+04	1.023e+04	-2.502e+04	-3.068e+04
2	5	196	6.05	-24.67	-16.31	-2.32	-13.68	3.554e+04	-6.656e+04	-1.420e+04	-1.682e+04	-5.103e+04
2	5	197	1.03	-11.11	-3.80	-6.29	-5.94	3.294e+04	-5.673e+04	-1.306e+04	-1.073e+04	-4.482e+04
2	5	198	2.80	-15.10	-12.22	-8.90e-02	-6.58	2.708e+04	-7.638e+04	-4.729e+04	-2014.94	-4.651e+04
2	5	199	3.86	-22.52	-9.76	-8.90	-13.18	1.819e+04	-9.716e+04	-5.385e+04	-2.511e+04	-5.586e+04
2	5	200	8.85	-24.52	-7.82	-7.85	-16.68	1.681e+04	-1.200e+05	-5.608e+04	-4.716e+04	-6.828e+04
2	5	201	17.51	-27.23	17.09	-26.80	4.35	2.891e+04	654.28	2.774e+04	1822.82	-5626.37
2	5	202	22.11	-29.75	21.07	-28.70	-7.28	4.117e+04	62.44	4.019e+04	1042.38	6270.42
2	5	203	14.96	-25.36	4.64	-15.04	-17.60	2.777e+04	-8494.08	2.770e+04	-8422.73	-1606.98
2	5	204	12.89	-23.02	-2.37	-7.76	-17.75	4.302e+04	-4.201e+04	2.820e+04	-2.719e+04	-3.226e+04
2	5	205	5.41	-15.02	-8.94	-0.67	9.34	3.229e+04	-4.939e+04	-1287.36	-1.581e+04	4.019e+04
2	5	206	7.57	-20.92	-4.92	-8.43	14.13	4.254e+04	-6.123e+04	1.869e+04	-3.738e+04	4.366e+04
2	5	207	13.72	-22.21	-1.53e-03	-8.49	17.46	4.323e+04	-3.665e+04	3.820e+04	-3.162e+04	1.941e+04
2	5	208	12.09	-21.86	0.84	-10.62	15.98	4.716e+04	-4.645e+04	3.700e+04	-3.629e+04	2.912e+04
2	5	209	12.75	-23.15	2.81	-13.21	16.06	4.117e+04	-2.923e+04	3.903e+04	-2.709e+04	1.207e+04
2	5	210	18.91	-24.48	13.97	-19.54	13.78	5.356e+04	-1.854e+04	5.354e+04	-1.852e+04	1171.89
2	5	211	23.43	-26.40	22.86	-25.84	5.30	4.213e+04	1.087e+04	4.195e+04	1.105e+04	2337.19
2	5	212	20.38	-23.99	13.45	-17.06	-16.11	5.603e+04	-2.735e+04	5.559e+04	-2.692e+04	-5989.97
2	5	213	17.03	-24.04	15.56	-22.57	-7.64	3.413e+04	1.032e+04	3.406e+04	1.039e+04	-1299.87
2	5	214	11.54	-23.06	0.99	-12.51	-15.93	4.535e+04	-3.855e+04	4.133e+04	-3.452e+04	-1.794e+04
2	5	215	5.88	-18.52	-10.00	-2.63	-11.63	3.537e+04	-7.778e+04	-2.005e+04	-2.236e+04	-5.657e+04
2	5	216	6.97	-21.59	-4.02	-10.60	-13.90	3.494e+04	-6.272e+04	1.111e+04	-3.888e+04	-4.195e+04
2	5	217	5.90	-18.41	-5.92	-6.59	-12.15	2.376e+04	-9.039e+04	-2.900e+04	-3.763e+04	-5.691e+04
2	5	218	14.08	-21.37	-2.99	-4.30	17.71	4.832e+04	-5.990e+04	2.584e+04	-3.743e+04	4.390e+04
2	5	219	33.43	-23.49	26.53	-16.59	18.57	9.068e+04	-8860.93	8.843e+04	-6610.94	1.480e+04
2	5	220	29.01	-21.28	20.06	-12.33	-19.24	8.930e+04	-2.697e+04	8.390e+04	-2.158e+04	-2.445e+04
2	5	221	32.98	-24.88	29.28	-21.18	-14.16	8.025e+04	241.92	8.000e+04	490.94	-4456.62
2	5	222	44.60	-24.66	44.37	-24.43	-3.96	1.140e+05	3.259e+04	1.140e+05	3.259e+04	-512.13
2	5	223	24.67	-27.58	22.87	-25.78	-9.52	5.418e+04	-1195.19	5.311e+04	-123.78	7627.48
2	5	224	21.13	-24.48	14.74	-18.09	-15.82	5.177e+04	-9850.71	5.177e+04	-9850.19	179.45
2	5	225	28.26	-28.87	28.22	-28.83	-1.47	6.070e+04	9121.51	5.943e+04	1.039e+04	-7976.33
2	5	226	17.58	-23.90	2.65	-8.97	-19.91	4.891e+04	-4.009e+04	3.998e+04	-3.116e+04	-2.674e+04
2	5	227	23.09	-24.35	10.76	-12.02	20.81	6.585e+04	-3.201e+04	6.160e+04	-2.776e+04	1.994e+04
2	5	228	22.16	-24.96	13.60	-16.40	18.17	5.634e+04	-1.830e+04	5.567e+04	-1.763e+04	7032.52
2	5	229	26.97	-27.22	10.78	-11.04	-24.80	6.641e+04	-6.574e+04	4.622e+04	-4.555e+04	-4.755e+04
2	5	230	29.08	-28.12	27.37	-26.41	9.74	6.154e+04	3278.46	6.148e+04	3338.85	-1874.73
2	5	231	13.17	-23.35	-4.19	-5.99	-18.24	3.728e+04	-5.260e+04	2.107e+04	-3.639e+04	-3.456e+04
2	5	232	38.75	-24.13	36.84	-22.22	10.80	1.047e+05	2.195e+04	1.043e+05	2.236e+04	5844.56
2	5	233	12.08	-23.50	10.88	-22.30	-6.43	3.110e+04	-3375.39	3.081e+04	-3086.06	3144.93
2	5	234	18.82	-23.40	18.33	-22.91	-4.52	3.532e+04	2.015e+04	3.340e+04	2.207e+04	5042.82
2	5	235	2.14	-16.15	-12.02	-1.98	-7.64	2.041e+04	-3.185e+04	3410.36	-1.484e+04	-2.448e+04
2	5	236	11.33	-32.10	10.93	-31.69	4.18	2.630e+04	-1.512e+04	2.582e+04	-1.464e+04	-4439.66
2	5	237	25.18	-25.37	18.30	-18.48	17.34	6.239e+04	-7179.58	6.206e+04	-6844.77	4814.78
2	5	238	16.48	-27.76	10.25	-21.53	15.38	3.573e+04	-1.455e+04	3.545e+04	-1.426e+04	-3788.98

2	5	239	9.67	-31.21	-3.59	-17.95	-19.14	2.098e+04	-2.217e+04	1.502e+04	-1.620e+04	-1.489e+04
2	5	240	44.50	-23.24	42.83	-21.57	-10.50	1.261e+05	1.947e+04	1.257e+05	1.987e+04	-6523.79
2	5	241	40.68	-28.32	28.43	-16.08	-26.36	1.068e+05	-1.157e+04	9.805e+04	-2858.83	-3.091e+04
2	5	242	18.87	-22.31	14.63	-18.07	12.52	4.631e+04	862.35	4.618e+04	988.61	-2392.11
2	5	243	29.03	-24.65	17.89	-13.52	21.76	7.585e+04	-3.480e+04	7.046e+04	-2.941e+04	2.382e+04
2	5	244	0.96	-20.16	-18.51	-0.69	5.67	2.351e+04	-7.681e+04	-5.942e+04	6116.07	3.798e+04
2	5	245	6.44	-18.55	-8.97	-3.14	-12.15	3.052e+04	-7.826e+04	-7246.09	-4.049e+04	-5.179e+04
2	5	246	10.75	-20.51	-1.68	-8.08	-15.29	3.957e+04	-5.605e+04	2.162e+04	-3.809e+04	-3.735e+04
2	5	247	6.08	-12.87	-9.20	2.41	7.49	5483.90	-3.795e+04	-3.793e+04	5460.15	1015.48
2	5	248	2.48	1.55	1.56	2.47	-0.10	2881.53	-6.710e+04	-5.935e+04	-4872.12	2.197e+04
2	5	249	16.83	-2.15	16.66	-1.98	1.78	7793.62	-5.810e+04	-4.153e+04	-8777.94	2.859e+04
2	5	250	6.22	-19.56	-16.42	3.08	-8.43	-1.806e+04	-6.435e+04	-5.80e+04	-2.401e+04	1.549e+04
2	5	251	27.94	0.92	15.26	13.60	-13.49	5422.00	-8.301e+04	-3.012e+04	-4.747e+04	4.336e+04
2	5	252	-6.51	-22.25	-16.65	-12.11	7.54	-1.970e+04	-8.860e+04	-4.885e+04	-5.945e+04	3.404e+04
2	5	253	31.95	4.04	5.88	30.10	-6.93	5164.84	-1.006e+05	-4881.39	-9.054e+04	3.101e+04
2	5	254	-3.87	-18.21	-11.30	-10.79	-7.17	-2.331e+04	-8.838e+04	-2.374e+04	-8.794e+04	5317.24
2	5	255	31.85	2.69	5.48	29.07	8.57	8830.76	-8.879e+04	8338.73	-8.830e+04	-6913.07
2	5	256	18.59	7.91e-04	0.17	18.41	-1.78	6789.89	-8.274e+04	-2031.83	-7.392e+04	-2.668e+04
2	5	257	23.32	-4.62	16.02	2.68	12.27	1.242e+04	-7.040e+04	-2791.18	-5.519e+04	-3.207e+04
2	5	258	21.83	2.75	8.41	16.17	8.71	6584.25	-8.792e+04	-3.287e+04	-4.847e+04	-4.661e+04
2	5	259	-8.70	-12.51	-9.84	-11.37	-1.75	-1.022e+04	-8.067e+04	-6.972e+04	-2.117e+04	-2.552e+04
2	5	260	14.47	2.59	11.69	5.36	5.03	3993.66	-7.919e+04	-6.507e+04	-1.013e+04	-3.123e+04
2	5	261	-1.05	-21.31	-21.24	-1.12	1.16	-1194.05	-6.665e+04	-6.615e+04	-1696.00	5710.03
2	5	262	6.19	-1.85	4.01	0.33	-3.58	4799.56	-5.014e+04	-4.984e+04	4506.39	-4002.53
2	5	263	3.06	-69.92	-54.85	-12.00	-29.54	-1.741e+05	-3.587e+05	-3.098e+05	-2.231e+05	-8.146e+04
2	5	264	6.05	-77.02	-71.13	0.16	-21.33	-2.039e+05	-3.334e+05	-3.271e+05	-2.102e+05	-2.788e+04
2	5	265	7.71	-52.09	-33.22	-11.17	-27.79	-1.110e+05	-2.357e+05	-2.040e+05	-1.427e+05	-5.433e+04
2	5	266	0.65	-30.62	-15.18	-14.79	-15.63	-3.182e+04	-1.563e+05	-1.521e+05	-3.602e+04	-2.245e+04
2	5	267	2.40	-18.74	-14.66	-1.68	-8.35	1.460e+04	-1.047e+05	-9.548e+04	5376.66	-3.186e+04
2	5	268	0.14	-3.16	-0.60	-2.41	1.38	9706.83	-6.721e+04	-6.609e+04	8586.90	-9213.30
2	5	269	-1.20	-11.26	-9.86	-2.60	-3.49	2.017e+04	-9.328e+04	-9.242e+04	1.932e+04	-9836.15
2	5	270	5.62	-9.70	1.29	-5.37	-6.90	9665.37	-8.322e+04	-8.191e+04	8355.90	1.095e+04
2	5	271	0.26	-4.85	-3.12	-1.47	-2.42	6637.97	-9.968e+04	-8.932e+04	-3720.79	3.153e+04
2	5	272	4.24	-9.10	-6.03	1.17	-5.62	-157.52	-1.087e+05	-6.875e+04	-4.011e+04	5.235e+04
2	5	273	4.67	-12.13	-10.72	3.26	-4.66	1949.83	-1.138e+05	-5.249e+04	-5.936e+04	5.777e+04
2	5	274	7.87	-21.96	-16.18	2.09	-11.79	-1.301e+04	-1.091e+05	-3.930e+04	-8.278e+04	4.283e+04
2	5	275	3.25	-8.57	-8.35	3.04	-1.58	-2872.74	-1.131e+05	-1.990e+04	-9.605e+04	3.983e+04
2	5	276	7.23	-5.67	-5.49	7.06	-1.49	307.26	-1.191e+05	306.71	-1.191e+05	255.56
2	5	277	6.89	-10.45	-7.47	3.91	6.54	-3176.27	-1.140e+05	-4626.94	-1.126e+05	-1.260e+04
2	5	278	10.67	-15.21	-11.07	6.53	9.49	-8679.20	-1.131e+05	-3.916e+04	-8.260e+04	-4.747e+04
2	5	279	3.49	-9.24	-9.13	3.39	1.13	4632.69	-1.108e+05	-6.671e+04	-3.941e+04	-5.606e+04
2	5	280	5.01	-5.66	-1.96	1.30	5.08	4248.38	-1.052e+05	-7.426e+04	-2.670e+04	-4.930e+04
2	5	281	-0.27	-11.01	-10.93	-0.36	0.94	1.250e+04	-1.027e+05	-9.809e+04	7910.74	-2.253e+04
2	5	282	3.82	-14.59	-2.07	-8.71	8.58	9893.90	-8.885e+04	-8.880e+04	9847.30	2144.50
2	5	283	1.29	-14.61	-13.83	0.52	3.42	2.247e+04	-9.316e+04	-9.056e+04	1.987e+04	1.713e+04
2	5	284	-0.11	-11.00	-7.75	-3.36	4.98	1.794e+04	-8.096e+04	-6.962e+04	6603.47	3.151e+04
2	5	285	0.83	-17.24	-9.51	-6.90	8.94	1.298e+04	-1.029e+05	-7.943e+04	-1.050e+04	4.659e+04
2	5	286	4.32	-30.83	-15.33	-11.19	17.45	-1.526e+04	-1.506e+05	-1.194e+05	-4.646e+04	5.699e+04
2	5	287	13.32	-47.35	-21.11	-12.93	30.06	-6.820e+04	-2.008e+05	-1.475e+05	-1.215e+05	6.501e+04
2	5	288	5.26	-72.08	-59.52	-7.30	28.53	-1.781e+05	-3.550e+05	-3.194e+05	-2.137e+05	7.090e+04
2	5	289	-0.56	-80.92	-78.40	-3.08	13.99	-2.191e+05	-4.550e+05	-4.395e+05	-2.346e+05	5.842e+04
2	5	290	-3.10	-78.64	-78.64	-3.10	0.14	-2.233e+05	-4.485e+05	-4.483e+05	-2.235e+05	-7301.98
2	5	291	11.14	-31.76	-31.76	11.14	9.73e-02	-4.394e+04	-1.280e+05	-5.958e+04	-1.123e+05	3.271e+04
2	5	292	11.81	-30.31	-30.10	11.60	-2.95	-3.582e+04	-1.298e+05	-6.306e+04	-1.025e+05	-4.263e+04
2	5	293	12.53	-27.81	-9.83	-5.45	20.05	-4.316e+04	-1.111e+05	-7.015e+04	-8.415e+04	-3.326e+04
2	5	294	9.39	-31.52	-18.88	-3.26	18.91	-7647.00	-1.155e+05	-1.147e+05	-8453.40	-9291.60
2	5	295	7.78	-27.99	-7.97	-12.25	-17.76	-5493.91	-1.000e+05	-9.747e+04	-8038.23	-1.530e+04
2	5	296	-0.70	-22.90	-10.46	-13.15	-11.02	-1.591e+04	-1.151e+05	-1.150e+05	-1.596e+04	-2143.43
2	5	297	1.51	-24.67	-13.62	-9.55	-12.93	-3.432e+04	-1.230e+05	-1.012e+05	-5.609e+04	3.815e+04
2	5	298	4.75	-29.75	-15.94	-9.06	-16.90	-3.825e+04	-1.335e+05	-1.304e+05	-4.130e+04	1.676e+04
2	5	299	5.42	-25.70	-22.97	2.70	-8.79	-1.081e+04	-1.246e+05	-1.224e+05	-1.301e+04	1.568e+04
2	5	300	8.24	-37.11	-35.67	6.80	-7.95	-3.410e+04	-1.366e+05	-1.040e+05	-6.665e+04	4.772e+04
2	5	301	4.81	-34.57	-32.85	3.09	-8.05	-5.201e+04	-1.292e+05	-5.335e+04	-1.279e+05	-1.008e+04
2	5	302	5.44	-36.99	-31.80	0.24	13.91	-5.925e+04	-1.223e+05	-5.939e+04	-1.221e+05	-2956.77
2	5	303	4.72	-38.80	-35.92	1.84	10.82	-4.132e+04	-1.418e+05	-1.274e+05	-5.578e+04	-3.528e+04
2	5	304	0.92	-24.41	-14.90	-8.58	12.26	-3.087e+04	-1.189e+05	-1.064e+05	-4.339e+04	-3.076e+04
2	5	305	5.63	-29.60	-12.98	-10.98	17.58	2975.88	-1.155e+05	-1.012e+05	-1.134e+04	3.861e+04
2	5	306	-1.08	-15.84	-13.39	-3.54	5.49	-4180.40	-1.126e+05	-1.125e+05	-4236.13	2457.38
2	5	307	6.64	-32.06	-17.08	-8.35	-18.85	-5.554e+04	-1.346e+05	-1.346e+05	-5.556e+04	-1312.59
2	5	308	0.53	-25.32	-11.29	-13.50	12.88	-2.862e+04	-1.326e+05	-1.235e+05	-3.768e+04	2.934e+04
2	5	309	-2.03	-55.38	-51.60	-5.81	-13.69	-1.401e+05	-2.266e+05	-2.217e+05	-1.449e+05	1.991e+04
2	5	310	1.29	-73.08	-71.95	0.16	9.10	-2.002e+05	-2.404e+05	-2.382e+05	-2.024e+05	9211.67
2	5	311	11.18	-42.58	-42.02	10.62	5.43	-9.225e+04	-1.543e+05	-1.098e+05	-1.367e+05	-2.792e+04
2	5	312	8.00	-43.59	-32.25	-3.34	21.36	-8.480e+04	-1.642e+05	-1.358e+05	-1.133e+05	-3.808e+04
2	5	313	-1.30	-52.08	-47.16	-6.22	15.02	-1.065e+05	-2.259e+05	-2.253e+05	-1.070e+05	-7877.52
2	5	314	3.32	-51.02	-48.58	0.89	11.24	-1.661e+05	-2.195e+05	-2.015e+05	-1.840e+05	-2.523e+04
2	5	315	11.55	-44.70	-44.07	10.91	5.95	-1.151e+05	-1.606e+05	-1.152e+05	-1.606e+05	1820.31

2	5	316	5.91	-33.05	-18.36	-8.78	18.88	-7.495e+04	-1.539e+05	-1.480e+05	-8.082e+04	-2.071e+04
2	5	317	6.15	-42.98	-31.11	-5.72	-21.03	-8.460e+04	-1.791e+05	-1.706e+05	-9.303e+04	2.693e+04
2	5	318	6.30	-39.26	-32.25	-0.71	-16.43	-7.964e+04	-1.587e+05	-1.372e+05	-1.011e+05	3.520e+04
2	5	319	-1.51e-02	-47.15	-33.33	-13.83	21.46	-1.102e+05	-2.181e+05	-2.120e+05	-1.162e+05	2.484e+04
2	5	320	-1.81	-22.39	-10.64	-13.55	10.19	-3.034e+04	-1.429e+05	-1.426e+05	-3.071e+04	6385.84
2	5	321	9.60	-46.11	-44.89	8.38	-8.16	-1.145e+05	-1.758e+05	-1.330e+05	-1.572e+05	2.815e+04
2	5	322	5.30	-30.99	-13.34	-12.35	18.14	-4.514e+04	-1.466e+05	-1.461e+05	-4.562e+04	-6952.60
2	5	323	-3.67	-60.02	-56.04	-7.65	-14.43	-1.953e+05	-2.188e+05	-2.186e+05	-1.955e+05	2145.64
2	5	324	7.88	-12.70	-2.52	-2.30	10.28	1982.93	-8.158e+04	-6.539e+04	-1.421e+04	-3.303e+04
2	5	325	-0.20	-23.37	-23.05	-0.52	2.69	-9.198e+04	-1.439e+05	-9.536e+04	-1.405e+05	-1.281e+04
2	5	326	17.62	-13.27	-12.48	16.82	4.90	-5847.94	-9.963e+04	-2.099e+04	-8.449e+04	-3.450e+04
2	5	327	24.67	-23.08	-23.03	24.61	1.66	-6999.89	-9.260e+04	-1.275e+04	-8.685e+04	2.143e+04
2	5	328	8.50	-41.64	-36.31	3.17	-15.45	-1.062e+05	-1.645e+05	-1.394e+05	-1.312e+05	2.888e+04
2	5	329	13.04	-27.54	-23.65	9.16	-11.94	-5.283e+04	-1.173e+05	-8.627e+04	-8.382e+04	3.220e+04
2	5	330	-3.07	-69.88	-69.50	-3.45	5.01	-2.036e+05	-2.975e+05	-2.973e+05	-2.038e+05	-4101.62
2	5	331	9.00	-73.60	-55.70	-8.89	34.03	-1.536e+05	-2.696e+05	-2.624e+05	-1.609e+05	2.806e+04
2	5	332	-1.10	-33.54	-26.60	-8.04	-13.30	-7.081e+04	-1.366e+05	-9.251e+04	-1.149e+05	3.095e+04
2	5	333	-4.65	-45.18	-35.64	-14.19	-17.19	-1.434e+05	-2.253e+05	-2.250e+05	-1.436e+05	-4247.86
2	5	334	6.29	-9.72	6.29	-9.72	0.18	1.961e+04	-5.188e+04	-4.197e+04	9700.06	-2.470e+04
2	5	335	1.37	-18.28	-7.80	-9.12	9.80	-1.418e+04	-1.084e+05	-1.035e+05	-1.912e+04	2.101e+04

<b>M_G</b>	<b>N max</b>	<b>N min</b>	<b>N 1</b>	<b>N 2</b>	<b>N 1-2</b>	<b>M max</b>	<b>M min</b>	<b>M 1</b>	<b>M 2</b>	<b>M 1-2</b>
	63.02	-96.95	-95.45	-36.17	-51.59	-7.147e+05	-6.772e+05	-2.834e+05	-1.878e+05	
			61.20	30.10	52.25	2.788e+05	2.705e+05	4.722e+04	1.834e+05	

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm2	daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	2	39	15.89	-17.75	-18.07	-17.83	-17.99	0.14	-3.006e+05	-3.095e+05	-3.092e+05	-3.009e+05	-1606.11
		40	15.97	-17.58	-17.86	-17.63	-17.81	0.11	-3.033e+05	-3.100e+05	-3.089e+05	-3.043e+05	-2467.00
		41	16.06	-17.70	-17.87	-17.76	-17.81	0.08	-3.063e+05	-3.104e+05	-3.101e+05	-3.065e+05	-1013.76
		42	15.99	-17.71	-18.04	-17.72	-18.03	0.07	-3.040e+05	-3.100e+05	-3.099e+05	-3.040e+05	-530.17
1	3	39	14.85	-16.68	-17.97	-16.93	-17.72	0.51	-2.588e+05	-3.058e+05	-3.013e+05	-2.633e+05	-1.383e+04
		40	14.76	-16.02	-17.15	-16.12	-17.05	0.31	-2.646e+05	-2.991e+05	-2.901e+05	-2.736e+05	-1.517e+04
		41	14.82	-16.55	-17.13	-16.69	-16.99	0.25	-2.740e+05	-2.940e+05	-2.918e+05	-2.762e+05	-6278.84
		42	14.85	-16.52	-17.86	-16.54	-17.84	0.18	-2.673e+05	-3.000e+05	-2.988e+05	-2.685e+05	-6019.49
1	4	39	14.88	-16.69	-17.64	-16.88	-17.46	0.38	-2.631e+05	-3.041e+05	-3.003e+05	-2.669e+05	-1.195e+04
		40	14.82	-16.17	-17.01	-16.24	-16.95	0.22	-2.683e+05	-2.985e+05	-2.907e+05	-2.761e+05	-1.320e+04
		41	14.88	-16.59	-17.02	-16.70	-16.91	0.19	-2.767e+05	-2.941e+05	-2.922e+05	-2.786e+05	-5463.00
		42	14.90	-16.54	-17.57	-16.55	-17.55	0.13	-2.707e+05	-2.992e+05	-2.982e+05	-2.717e+05	-5186.30
2	2	42	15.99	-17.75	-18.02	-17.77	-18.00	0.08	-3.039e+05	-3.101e+05	-3.100e+05	-3.039e+05	-634.36
		41	16.06	-17.67	-17.85	-17.70	-17.82	0.07	-3.063e+05	-3.103e+05	-3.100e+05	-3.066e+05	-995.98
		43	16.08	-17.71	-17.81	-17.72	-17.81	0.02	-3.074e+05	-3.103e+05	-3.103e+05	-3.074e+05	27.74
		44	16.02	-17.77	-18.02	-17.77	-18.02	0.02	-3.049e+05	-3.103e+05	-3.103e+05	-3.049e+05	107.36
2	3	42	14.85	-16.69	-17.76	-16.74	-17.71	0.22	-2.668e+05	-3.006e+05	-2.994e+05	-2.680e+05	-6232.64
		41	14.80	-16.39	-17.11	-16.45	-17.05	0.19	-2.739e+05	-2.935e+05	-2.910e+05	-2.764e+05	-6511.12
		43	14.81	-16.53	-17.00	-16.53	-17.00	0.02	-2.773e+05	-2.912e+05	-2.912e+05	-2.773e+05	68.68
		44	14.86	-16.69	-17.80	-16.69	-17.80	-9.66e-03	-2.699e+05	-2.987e+05	-2.987e+05	-2.699e+05	111.66
2	4	42	14.90	-16.68	-17.48	-16.72	-17.45	0.17	-2.703e+05	-2.997e+05	-2.987e+05	-2.713e+05	-5379.95
		41	14.87	-16.46	-17.00	-16.50	-16.95	0.14	-2.766e+05	-2.937e+05	-2.916e+05	-2.788e+05	-5658.79
		43	14.89	-16.56	-16.92	-16.56	-16.92	0.02	-2.796e+05	-2.917e+05	-2.917e+05	-2.796e+05	60.55
		44	14.91	-16.68	-17.52	-16.68	-17.52	-5.10e-03	-2.730e+05	-2.981e+05	-2.981e+05	-2.730e+05	106.26
3	2	44	16.02	-17.76	-18.02	-17.77	-18.02	0.02	-3.049e+05	-3.103e+05	-3.103e+05	-3.049e+05	-15.42
		43	16.08	-17.71	-17.81	-17.72	-17.81	0.02	-3.074e+05	-3.103e+05	-3.103e+05	-3.074e+05	69.27
		45	16.06	-17.69	-17.83	-17.70	-17.82	-0.03	-3.063e+05	-3.103e+05	-3.100e+05	-3.066e+05	1083.92
		46	15.99	-17.76	-18.00	-17.77	-18.00	-0.04	-3.038e+05	-3.101e+05	-3.100e+05	-3.039e+05	714.05
3	3	44	14.86	-16.69	-17.80	-16.69	-17.80	0.02	-2.699e+05	-2.987e+05	-2.987e+05	-2.699e+05	-53.95
		43	14.81	-16.53	-17.00	-16.53	-17.00	-9.46e-03	-2.773e+05	-2.912e+05	-2.912e+05	-2.773e+05	-38.43
		45	14.80	-16.40	-17.10	-16.45	-17.05	-0.18	-2.739e+05	-2.935e+05	-2.911e+05	-2.764e+05	6532.75
		46	14.85	-16.69	-17.76	-16.74	-17.71	-0.21	-2.668e+05	-3.007e+05	-2.994e+05	-2.680e+05	6276.00
3	4	44	14.91	-16.68	-17.52	-16.68	-17.52	0.02	-2.730e+05	-2.981e+05	-2.981e+05	-2.730e+05	-49.11
		43	14.89	-16.56	-16.92	-16.56	-16.92	-5.80e-03	-2.796e+05	-2.917e+05	-2.917e+05	-2.796e+05	-25.81
		45	14.87	-16.47	-16.99	-16.50	-16.95	-0.13	-2.766e+05	-2.938e+05	-2.916e+05	-2.788e+05	5685.13
		46	14.90	-16.68	-17.48	-16.72	-17.45	-0.16	-2.702e+05	-2.998e+05	-2.987e+05	-2.713e+05	5423.66
4	3	46	14.85	-16.51	-17.87	-16.53	-17.84	-0.17	-2.672e+05	-3.001e+05	-2.989e+05	-2.684e+05	6062.48
		45	14.82	-16.56	-17.12	-16.69	-16.99	-0.24	-2.740e+05	-2.940e+05	-2.918e+05	-2.762e+05	6300.16
		47	14.76	-16.03	-17.13	-16.12	-17.04	-0.30	-2.646e+05	-2.991e+05	-2.901e+05	-2.736e+05	517e+04
		48	14.86	-16.70	-17.94	-16.92	-17.72	-0.48	-2.587e+05	-3.059e+05	-3.014e+05	-2.632e+05	1.383e+04
4	4	46	14.90	-16.53	-17.57	-16.55	-17.55	-0.12	-2.706e+05	-2.993e+05	-2.983e+05	-2.716e+05	5229.71
		45	14.88	-16.60	-17.00	-16.70	-16.90	-0.17	-2.766e+05	-2.942e+05	-2.922e+05	-2.786e+05	5489.12
		47	14.82	-16.18	-17.00	-16.24	-16.94	-0.21	-2.683e+05	-2.985e+05	-2.907e+05	-2.761e+05	1.320e+04
		48	14.88	-16.71	-17.61	-16.86	-17.46	-0.34	-2.630e+05	-3.042e+05	-3.003e+05	-2.668e+05	1.196e+04
4	5	46	16.04	-17.74	-19.76	-17.78	-19.72	-0.26	-2.831e+05	-3.280e+05	-3.264e+05	-2.847e+05	8348.32
		45	15.98	-17.78	-18.64	-17.99	-18.44	-0.37	-2.922e+05	-3.196e+05	-3.166e+05	-2.953e+05	8634.52
		47	15.93	-17.01	-18.68	-17.16	-18.53	-0.48	-2.794e+05	-3.267e+05	-3.144e+05	-2.918e+05	2.078e+04
		48	16.09	-17.99	-19.89	-18.34	-19.54	-0.74	-2.715e+05	-3.361e+05	-3.299e+05	-2.777e+05	1.900e+04
5	2	40	15.98	-17.66	-17.95	-17.80	-17.81	0.15	-3.033e+05	-3.104e+05	-3.095e+05	-3.043e+05	-2450.13

		49	15.99	-17.47	-17.71	-17.56	-17.63	0.12-3.037e+05-3.103e+05-3.076e+05-3.064e+05	-3266.90
		50	16.08	-17.58	-17.76	-17.71	-17.62	0.08-3.073e+05-3.101e+05-3.091e+05-3.083e+05	-1382.62
		41	16.05	-17.63	-17.84	-17.66	-17.81	0.07-3.063e+05-3.101e+05-3.099e+05-3.066e+05	-973.08
5	3	40	14.83	-16.47	-17.42	-16.84	-17.04	0.46-2.656e+05-3.008e+05-2.928e+05-2.736e+05-1.481e+04	
		49	14.71	-15.68	-16.49	-15.88	-16.29	0.34-2.653e+05-2.971e+05-2.809e+05-2.815e+05-1.592e+04	
		50	14.78	-16.16	-16.66	-16.53	-16.29	0.22-2.768e+05-2.902e+05-2.840e+05-2.830e+05	-6674.07
		41	14.78	-16.23	-17.06	-16.27	-17.01	0.18-2.738e+05-2.929e+05-2.905e+05-2.762e+05	-6403.74
5	4	40	14.88	-16.53	-17.23	-16.83	-16.94	0.34-2.692e+05-3.000e+05-2.930e+05-2.761e+05-1.289e+04	
		49	14.78	-15.92	-16.52	-16.05	-16.39	0.25-2.690e+05-2.968e+05-2.827e+05-2.831e+05-1.393e+04	
		50	14.85	-16.29	-16.68	-16.59	-16.39	0.16-2.792e+05-2.909e+05-2.855e+05-2.846e+05	-5842.57
		41	14.85	-16.33	-16.96	-16.36	-16.93	0.13-2.765e+05-2.932e+05-2.911e+05-2.786e+05	-5564.68
6	2	41	16.06	-17.68	-17.86	-17.72	-17.81	0.08-3.063e+05-3.103e+05-3.101e+05-3.066e+05	-1029.89
		50	16.07	-17.56	-17.71	-17.64	-17.62	0.07-3.072e+05-3.100e+05-3.089e+05-3.083e+05	-1380.02
		51	16.10	-17.61	-17.67	-17.66	-17.62	0.02-3.090e+05-3.093e+05-3.093e+05-3.090e+05	68.43
		43	16.08	-17.70	-17.82	-17.71	-17.81	0.02-3.074e+05-3.103e+05-3.103e+05-3.074e+05	70.59
6	3	41	14.81	-16.46	-17.10	-16.54	-17.02	0.22-2.739e+05-2.938e+05-2.914e+05-2.763e+05	-6508.87
		50	14.75	-16.07	-16.47	-16.24	-16.29	0.20-2.762e+05-2.899e+05-2.830e+05-2.830e+05	-6858.60
		51	14.76	-16.28	-16.33	-16.32	-16.28	6.96e-03-2.834e+05-2.836e+05-2.835e+05-2.835e+05	80.84
		43	14.81	-16.48	-17.02	-16.48	-17.02	-1.49e-03-2.773e+05-2.911e+05-2.911e+05-2.773e+05	73.52
6	4	41	14.88	-16.52	-16.99	-16.58	-16.93	0.16-2.766e+05-2.940e+05-2.919e+05-2.786e+05	-5660.85
		50	14.83	-16.22	-16.52	-16.35	-16.38	0.15-2.786e+05-2.906e+05-2.847e+05-2.846e+05	-5999.48
		51	14.85	-16.38	-16.42	-16.42	-16.38	7.49e-03-2.850e+05-2.852e+05-2.851e+05-2.851e+05	75.76
		43	14.88	-16.53	-16.93	-16.53	-16.93	8.37e-04-2.796e+05-2.917e+05-2.917e+05-2.796e+05	69.65
7	2	43	16.08	-17.70	-17.82	-17.71	-17.81	0.02-3.074e+05-3.103e+05-3.103e+05-3.074e+05	27.00
		51	16.10	-17.61	-17.67	-17.66	-17.62	0.02-3.090e+05-3.093e+05-3.093e+05-3.090e+05	55.10
		52	16.07	-17.60	-17.67	-17.64	-17.62	-0.03-3.071e+05-3.101e+05-3.089e+05-3.084e+05	1496.26
		45	16.06	-17.71	-17.82	-17.72	-17.81	-0.04-3.063e+05-3.104e+05-3.100e+05-3.066e+05	1118.19
7	3	43	14.81	-16.48	-17.02	-16.48	-17.02	0.01-2.773e+05-2.911e+05-2.911e+05-2.773e+05	-42.83
		51	14.76	-16.28	-16.32	-16.32	-16.28	-8.03e-04-2.835e+05-2.836e+05-2.835e+05-2.835e+05	-59.35
		52	14.75	-16.07	-16.46	-16.25	-16.28	-0.19-2.761e+05-2.899e+05-2.830e+05-2.830e+05	6876.26
		45	14.81	-16.47	-17.09	-16.55	-17.02	-0.21-2.738e+05-2.938e+05-2.914e+05-2.763e+05	6531.25
7	4	43	14.88	-16.53	-16.93	-16.53	-16.93	0.01-2.796e+05-2.917e+05-2.917e+05-2.796e+05	-34.48
		51	14.85	-16.38	-16.42	-16.42	-16.38	1.29e-03-2.850e+05-2.852e+05-2.851e+05-2.851e+05	-45.20
		52	14.83	-16.23	-16.50	-16.36	-16.38	-0.14-2.786e+05-2.907e+05-2.847e+05-2.846e+05	6025.93
		45	14.88	-16.52	-16.98	-16.58	-16.93	-0.15-2.765e+05-2.940e+05-2.919e+05-2.786e+05	5687.87
8	2	45	16.05	-17.65	-17.82	-17.66	-17.81	-0.03-3.063e+05-3.102e+05-3.098e+05-3.066e+05	1061.35
		52	16.08	-17.61	-17.73	-17.71	-17.62	-0.04-3.072e+05-3.103e+05-3.091e+05-3.084e+05	1498.53
		53	15.99	-17.51	-17.67	-17.56	-17.62	-0.08-3.036e+05-3.104e+05-3.075e+05-3.065e+05	3362.55
		47	15.98	-17.70	-17.91	-17.80	-17.81	-0.10-3.033e+05-3.105e+05-3.094e+05-3.043e+05	2511.40
8	3	45	14.78	-16.23	-17.05	-16.27	-17.01	-0.18-2.737e+05-2.930e+05-2.905e+05-2.762e+05	6425.63
		52	14.78	-16.17	-16.66	-16.54	-16.29	-0.21-2.768e+05-2.902e+05-2.840e+05-2.830e+05	6690.93
		53	14.71	-15.69	-16.47	-15.89	-16.28	-0.34-2.653e+05-2.972e+05-2.809e+05-2.816e+05-1.593e+04	
		47	14.83	-16.50	-17.40	-16.85	-17.04	-0.44-2.656e+05-3.008e+05-2.928e+05-2.736e+05-1.481e+04	
8	4	45	14.85	-16.33	-16.95	-16.35	-16.93	-0.12-2.764e+05-2.933e+05-2.911e+05-2.786e+05	5591.30
		52	14.85	-16.30	-16.67	-16.59	-16.38	-0.15-2.792e+05-2.909e+05-2.855e+05-2.846e+05	5868.31
		53	14.78	-15.93	-16.50	-16.06	-16.38	-0.24-2.689e+05-2.969e+05-2.827e+05-2.831e+05-1.395e+04	
		47	14.88	-16.56	-17.21	-16.83	-16.94	-0.32-2.691e+05-3.000e+05-2.930e+05-2.761e+05-1.289e+04	
9	2	49	16.01	-17.56	-17.82	-17.76	-17.63	0.11-3.038e+05-3.108e+05-3.082e+05-3.064e+05	-3371.69
		54	15.95	-17.32	-17.62	-17.52	-17.41	0.14-3.020e+05-3.103e+05-3.049e+05-3.074e+05	-3948.05
		55	16.03	-17.41	-17.68	-17.66	-17.43	0.07-3.057e+05-3.101e+05-3.065e+05-3.093e+05	-1743.37
		50	16.07	-17.53	-17.69	-17.60	-17.62	0.08-3.072e+05-3.099e+05-3.088e+05-3.083e+05	-1305.18
9	3	49	14.79	-16.10	-16.90	-16.71	-16.29	0.34-2.667e+05-2.988e+05-2.840e+05-2.815e+05-1.600e+04	
		54	14.66	-15.17	-16.10	-15.75	-15.52	0.45-2.615e+05-2.981e+05-2.710e+05-2.886e+05-1.604e+04	
		55	14.71	-15.51	-16.37	-16.33	-15.56	0.18-2.720e+05-2.920e+05-2.749e+05-2.891e+05	-7053.74
		50	14.73	-15.92	-16.41	-16.06	-16.27	0.22-2.761e+05-2.893e+05-2.825e+05-2.828e+05	-6613.73
9	4	49	14.86	-16.26	-16.86	-16.73	-16.39	0.25-2.702e+05-2.983e+05-2.854e+05-2.831e+05-1.401e+04	
		54	14.73	-15.55	-16.23	-15.97	-15.80	0.33-2.655e+05-2.976e+05-2.739e+05-2.892e+05-1.411e+04	
		55	14.79	-15.81	-16.47	-16.44	-15.83	0.13-2.749e+05-2.924e+05-2.774e+05-2.898e+05	-6207.95
		50	14.81	-16.10	-16.47	-16.20	-16.37	0.16-2.785e+05-2.901e+05-2.842e+05-2.844e+05	-5782.15
10	2	50	16.07	-17.57	-17.72	-17.67	-17.62	0.07-3.072e+05-3.101e+05-3.090e+05-3.083e+05	-1402.47
		55	16.03	-17.40	-17.62	-17.59	-17.43	0.08-3.056e+05-3.101e+05-3.064e+05-3.093e+05	-1716.95
		56	16.06	-17.42	-17.61	-17.61	-17.43	0.02-3.068e+05-3.099e+05-3.068e+05-3.099e+05	80.56
		51	16.10	-17.61	-17.66	-17.65	-17.62	0.02-3.090e+05-3.093e+05-3.093e+05-3.090e+05	88.17
10	3	50	14.76	-16.11	-16.52	-16.35	-16.28	0.20-2.763e+05-2.901e+05-2.834e+05-2.829e+05	-6876.31
		55	14.69	-15.47	-16.13	-16.05	-15.55	0.21-2.712e+05-2.918e+05-2.740e+05-2.890e+05	-7093.36
		56	14.70	-15.54	-16.12	-16.12	-15.54	-5.45e-03-2.748e+05-2.891e+05-2.748e+05-2.891e+05	52.39
		51	14.76	-16.27	-16.29	-16.27	-16.28	6.93e-03-2.834e+05-2.836e+05-2.835e+05-2.834e+05	96.19
10	4	50	14.84	-16.26	-16.56	-16.44	-16.38	0.15-2.787e+05-2.908e+05-2.850e+05-2.845e+05	-6017.17
		55	14.77	-15.77	-16.27	-16.21	-15.83	0.16-2.742e+05-2.923e+05-2.767e+05-2.898e+05	-6238.65
		56	14.78	-15.83	-16.27	-16.27	-15.83	-2.60e-03-2.775e+05-2.899e+05-2.775e+05-2.899e+05	52.95
		51	14.84	-16.37	-16.39	-16.38	-16.38	7.49e-03-2.850e+05-2.851e+05-2.851e+05-2.850e+05	91.13
11	2	51	16.10	-17.61	-17.66	-17.65	-17.62	0.02-3.090e+05-3.093e+05-3.093e+05-3.090e+05	35.77
		56	16.06	-17.42	-17.61	-17.61	-17.43	0.02-3.068e+05-3.099e+05-3.068e+05-3.099e+05	82.58
		57	16.03	-17.42	-17.60	-17.59	-17.42	-0.04-3.054e+05-3.102e+05-3.063e+05-3.093e+05	1873.82
		52	16.07	-17.60	-17.69	-17.67	-17.62	-0.03-3.071e+05-3.102e+05-3.089e+05-3.084e+05	1519.18
11	3	51	14.76	-16.27	-16.28	-16.27	-16.28	-1.16e-03-2.834e+05-2.835e+05-2.835e+05-2.834e+05	-74.50
		56	14.70	-15.54	-16.12	-16.12	-15.54	7.00e-03-2.748e+05-2.891e+05-2.748e+05-2.891e+05	-28.22

		57	14.69	-15.47	-16.13	-16.05	-15.55	-0.21-2.712e+05-2.919e+05-2.740e+05-2.890e+05	7113.98
		52	14.76	-16.12	-16.51	-16.35	-16.28	-0.19-2.763e+05-2.901e+05-2.835e+05-2.829e+05	6894.21
11	4	51	14.84	-16.38	-16.38	-16.38	-16.38	9.67e-04-2.850e+05-2.851e+05-2.851e+05-2.850e+05	-60.35
		56	14.78	-15.83	-16.27	-16.27	-15.83	7.44e-03-2.775e+05-2.899e+05-2.775e+05-2.899e+05	-15.44
		57	14.77	-15.77	-16.27	-16.21	-15.83	-0.15-2.742e+05-2.923e+05-2.767e+05-2.898e+05	6272.49
		52	14.84	-16.27	-16.55	-16.44	-16.38	-0.14-2.787e+05-2.908e+05-2.850e+05-2.845e+05	6043.89
12	2	52	16.07	-17.57	-17.65	-17.60	-17.62	-0.04-3.071e+05-3.100e+05-3.088e+05-3.083e+05	1421.84
		57	16.04	-17.42	-17.66	-17.66	-17.43	-0.03-3.055e+05-3.103e+05-3.065e+05-3.093e+05	1899.81
		58	15.95	-17.35	-17.58	-17.53	-17.41	-0.10-3.018e+05-3.105e+05-3.048e+05-3.076e+05	4088.99
		53	16.01	-17.59	-17.79	-17.76	-17.62	-0.07-3.038e+05-3.109e+05-3.082e+05-3.065e+05	3468.07
12	3	52	14.73	-15.93	-16.41	-16.06	-16.27	-0.21-2.760e+05-2.893e+05-2.825e+05-2.828e+05	6631.07
		57	14.71	-15.51	-16.37	-16.33	-15.55	-0.18-2.720e+05-2.920e+05-2.749e+05-2.801e+05	7073.29
		58	14.66	-15.17	-16.11	-15.76	-15.51	-0.45-2.615e+05-2.981e+05-2.710e+05-2.886e+05	1.605e+04
		53	14.80	-16.10	-16.90	-16.72	-16.28	-0.33-2.667e+05-2.988e+05-2.840e+05-2.816e+05	1.601e+04
12	4	52	14.81	-16.11	-16.46	-16.21	-16.37	-0.15-2.785e+05-2.901e+05-2.842e+05-2.844e+05	5808.39
		57	14.79	-15.80	-16.47	-16.44	-15.83	-0.13-2.749e+05-2.925e+05-2.775e+05-2.899e+05	6240.83
		58	14.73	-15.54	-16.23	-15.98	-15.80	-0.33-2.655e+05-2.977e+05-2.739e+05-2.893e+05	1.414e+04
		53	14.86	-16.26	-16.85	-16.74	-16.38	-0.23-2.702e+05-2.983e+05-2.854e+05-2.831e+05	1.403e+04
13	2	54	15.96	-17.37	-17.74	-17.70	-17.41	0.11-3.022e+05-3.107e+05-3.054e+05-3.075e+05	-4107.24
		59	15.84	-17.16	-17.59	-17.49	-17.25	0.18-2.980e+05-3.100e+05-3.002e+05-3.079e+05	-4609.85
		60	15.94	-17.21	-17.58	-17.57	-17.22	0.06-3.018e+05-3.102e+05-3.024e+05-3.096e+05	-2154.01
		55	16.02	-17.39	-17.60	-17.56	-17.44	0.09-3.055e+05-3.099e+05-3.062e+05-3.092e+05	-1622.85
13	3	54	14.73	-15.41	-16.58	-16.49	-15.50	0.31-2.630e+05-2.993e+05-2.737e+05-2.886e+05	-1.651e+04
		59	14.62	-14.60	-15.93	-15.68	-14.86	0.53-2.525e+05-3.026e+05-2.586e+05-2.965e+05	-1.629e+04
		60	14.62	-14.71	-16.06	-16.04	-14.74	0.17-2.617e+05-2.967e+05-2.633e+05-2.951e+05	-7381.21
		55	14.67	-15.45	-16.04	-15.90	-15.58	0.25-2.710e+05-2.916e+05-2.735e+05-2.890e+05	-6801.98
13	4	54	14.79	-15.74	-16.62	-16.57	-15.79	0.22-2.669e+05-2.987e+05-2.763e+05-2.893e+05	-1.454e+04
		59	14.68	-15.12	-16.12	-15.93	-15.31	0.40-2.575e+05-3.015e+05-2.629e+05-2.961e+05	-1.440e+04
		60	14.70	-15.20	-16.24	-16.22	-15.22	0.13-2.657e+05-2.965e+05-2.672e+05-2.950e+05	-6535.61
		55	14.76	-15.75	-16.20	-16.09	-15.86	0.19-2.740e+05-2.921e+05-2.763e+05-2.898e+05	-5979.35
14	2	55	16.03	-17.40	-17.64	-17.61	-17.42	0.07-3.056e+05-3.101e+05-3.064e+05-3.092e+05	-1765.00
		60	15.94	-17.23	-17.55	-17.53	-17.25	0.07-3.016e+05-3.103e+05-3.022e+05-3.097e+05	-2115.95
		61	15.97	-17.22	-17.56	-17.56	-17.22	0.01-3.030e+05-3.102e+05-3.030e+05-3.102e+05	61.59
		56	16.06	-17.43	-17.60	-17.59	-17.43	0.02-3.068e+05-3.099e+05-3.068e+05-3.099e+05	137.62
14	3	55	14.69	-15.47	-16.20	-16.15	-15.52	0.19-2.714e+05-2.918e+05-2.743e+05-2.888e+05	-7159.87
		60	14.62	-14.81	-15.89	-15.84	-14.86	0.21-2.611e+05-2.971e+05-2.628e+05-2.955e+05	-7481.55
		61	14.62	-14.76	-15.92	-15.92	-14.76	-0.02-2.643e+05-2.947e+05-2.643e+05-2.948e+05	19.03
		56	14.69	-15.56	-16.07	-16.07	-15.56	0.01-2.748e+05-2.891e+05-2.748e+05-2.891e+05	125.34
14	4	55	14.77	-15.77	-16.33	-16.29	-15.81	0.14-2.744e+05-2.923e+05-2.770e+05-2.897e+05	-6300.81
		60	14.70	-15.28	-16.09	-16.06	-15.32	0.16-2.652e+05-2.968e+05-2.666e+05-2.954e+05	-6616.44
		61	14.70	-15.24	-16.12	-16.12	-15.24	-0.01-2.681e+05-2.948e+05-2.681e+05-2.948e+05	22.11
		56	14.78	-15.84	-16.23	-16.23	-15.84	0.01-2.774e+05-2.899e+05-2.774e+05-2.899e+05	121.72
15	2	56	16.06	-17.43	-17.60	-17.59	-17.43	0.02-3.068e+05-3.099e+05-3.068e+05-3.099e+05	25.58
		61	15.97	-17.22	-17.56	-17.56	-17.22	0.02-3.029e+05-3.102e+05-3.030e+05-3.102e+05	150.05
		62	15.94	-17.24	-17.54	-17.53	-17.24	-0.04-3.015e+05-3.104e+05-3.022e+05-3.098e+05	2319.14
		57	16.03	-17.41	-17.62	-17.62	-17.42	-0.03-3.054e+05-3.102e+05-3.064e+05-3.093e+05	1922.13
15	3	56	14.69	-15.56	-16.07	-16.07	-15.56	-0.01-2.748e+05-2.891e+05-2.748e+05-2.891e+05	-101.65
		61	14.62	-14.76	-15.92	-15.92	-14.76	0.02-2.643e+05-2.947e+05-2.643e+05-2.947e+05	20.77
		62	14.62	-14.81	-15.89	-15.85	-14.86	-0.22-2.611e+05-2.972e+05-2.628e+05-2.955e+05	7513.57
		57	14.69	-15.46	-16.20	-16.15	-15.51	-0.19-2.714e+05-2.918e+05-2.744e+05-2.889e+05	7179.95
15	4	56	14.78	-15.84	-16.23	-16.23	-15.84	-9.51e-03-2.774e+05-2.899e+05-2.774e+05-2.899e+05	-84.61
		61	14.70	-15.24	-16.12	-16.12	-15.24	0.02-2.681e+05-2.948e+05-2.681e+05-2.948e+05	34.24
		62	14.70	-15.28	-16.10	-16.06	-15.31	-0.16-2.652e+05-2.969e+05-2.667e+05-2.954e+05	6665.28
		57	14.78	-15.77	-16.33	-16.29	-15.80	-0.13-2.744e+05-2.923e+05-2.770e+05-2.897e+05	6334.22
16	2	57	16.03	-17.42	-17.58	-17.56	-17.43	-0.05-3.054e+05-3.101e+05-3.062e+05-3.093e+05	1779.45
		62	15.94	-17.22	-17.57	-17.57	-17.22	-0.03-3.016e+05-3.104e+05-3.023e+05-3.097e+05	2356.94
		63	15.84	-17.18	-17.56	-17.50	-17.24	-0.14-2.978e+05-3.103e+05-3.001e+05-3.081e+05	4794.23
		58	15.96	-17.39	-17.72	-17.70	-17.40	-0.07-3.021e+05-3.109e+05-3.054e+05-3.076e+05	4248.44
16	3	57	14.68	-15.44	-16.04	-15.91	-15.58	-0.25-2.710e+05-2.916e+05-2.735e+05-2.890e+05	6821.30
		62	14.62	-14.72	-16.06	-16.04	-14.74	-0.17-2.617e+05-2.968e+05-2.634e+05-2.952e+05	7412.41
		63	14.63	-14.57	-15.95	-15.68	-14.84	-0.55-2.526e+05-3.027e+05-2.586e+05-2.967e+05	1.630e+04
		58	14.73	-15.41	-16.58	-16.50	-15.49	-0.30-2.630e+05-2.993e+05-2.737e+05-2.887e+05	1.653e+04
16	4	57	14.76	-15.75	-16.20	-16.10	-15.85	-0.19-2.740e+05-2.921e+05-2.763e+05-2.898e+05	6012.04
		62	14.70	-15.20	-16.24	-16.22	-15.22	-0.12-2.657e+05-2.966e+05-2.672e+05-2.951e+05	6583.71
		63	14.69	-15.10	-16.14	-15.93	-15.30	-0.41-2.575e+05-3.016e+05-2.629e+05-2.962e+05	1.443e+04
		58	14.80	-15.73	-16.62	-16.57	-15.78	-0.21-2.669e+05-2.988e+05-2.763e+05-2.894e+05	1.456e+04
17	2	61	15.96	-17.26	-17.52	-17.51	-17.28	0.06-3.026e+05-3.102e+05-3.028e+05-3.100e+05	-1284.08
		64	15.72	-16.80	-17.56	-17.53	-16.83	0.15-2.940e+05-3.093e+05-2.945e+05-3.087e+05	-2804.91
		65	15.71	-17.07	-17.42	-17.38	-17.11	0.11-2.913e+05-3.112e+05-2.915e+05-3.110e+05	1936.05
		62	15.93	-17.17	-17.58	-17.58	-17.17	9.14e-03-3.016e+05-3.101e+05-3.016e+05-3.100e+05	865.77
17	3	61	14.62	-14.91	-15.85	-15.81	-14.95	0.17-2.642e+05-2.948e+05-2.651e+05-2.939e+05	-5246.98
		64	14.49	-13.33	-15.70	-15.65	-13.38	0.33-2.436e+05-3.035e+05-2.459e+05-3.011e+05	-1.168e+04
		65	14.67	-14.13	-15.54	-15.50	-14.17	0.23-2.373e+05-3.116e+05-2.373e+05-3.116e+05	2306.83
		62	14.59	-14.55	-15.99	-15.99	-14.55	-0.03-2.618e+05-2.956e+05-2.618e+05-2.956e+05	1062.97
17	4	61	14.70	-15.36	-16.06	-16.04	-15.39	0.13-2.679e+05-2.949e+05-2.687e+05-2.941e+05	-4617.77
		64	14.55	-14.15	-15.96	-15.93	-14.19	0.25-2.494e+05-3.022e+05-2.515e+05-3.001e+05	-1.026e+04
		65	14.70	-14.79	-15.83	-15.80	-14.82	0.18-2.437e+05-3.093e+05-2.438e+05-3.092e+05	2196.90



		62	14.67	-15.07	-16.17	-16.17	-15.07	-0.01-2.658e+05-2.955e+05-2.658e+05-2.955e+05	1003.48
18	3	64	14.57	-14.06	-15.86	-15.42	-14.50	0.77-2.426e+05-3.063e+05-2.429e+05-3.060e+05	-4784.17
		66	14.66	-9.27	-17.04	-16.54	-9.78	-1.91-1.997e+05-3.224e+05-2.230e+05-2.991e+05-4.809e+04	
		67	15.99	-10.92	-18.92	-14.16	-15.69	3.93-1.867e+05-3.545e+05-1.940e+05-3.472e+05-3.423e+04	
		65	14.29	-12.21	-15.78	-15.74	-12.24	-0.36-2.346e+05-3.020e+05-2.351e+05-3.014e+05	-6006.83
18	4	64	14.62	-14.73	-16.10	-15.73	-15.10	0.60-2.485e+05-3.047e+05-2.488e+05-3.043e+05	-4248.60
		66	14.58	-10.91	-17.09	-16.67	-11.32	-1.56-2.104e+05-3.180e+05-2.308e+05-2.977e+05-4.211e+04	
		67	15.69	-12.17	-18.68	-14.71	-16.15	3.17-1.984e+05-3.469e+05-2.049e+05-3.403e+05-3.047e+04	
		65	14.36	-13.23	-16.03	-16.00	-13.26	-0.29-2.414e+05-3.008e+05-2.419e+05-3.003e+05	-5083.09
18	5	64	15.75	-14.00	-16.70	-16.08	-14.63	1.14-2.496e+05-3.366e+05-2.501e+05-3.361e+05	-6491.16
		66	16.18	-7.07	-18.33	-17.58	-7.82	-2.80-1.911e+05-3.591e+05-2.229e+05-3.273e+05-6.579e+04	
		67	18.18	-9.57	-20.95	-14.35	-16.17	5.62-1.742e+05-4.022e+05-1.840e+05-5.832e+05-4.618e+04	
		65	15.38	-11.33	-16.59	-16.54	-11.38	-0.52-2.388e+05-3.306e+05-2.396e+05-3.299e+05	-8372.28
19	3	66	16.36	-13.37	-21.12	-15.91	-18.57	3.64-1.915e+05-3.627e+05-1.943e+05-3.598e+05-2.183e+04	
		68	50.31	42.01	-55.93	-21.21	7.30	-46.85-3.784e+05-7.182e+05-1.749e+05-1.649e+05-5.483e+05	
		69	50.53	31.45	-69.96	-13.82	-24.68	50.42-2.131e+05-8.443e+05-1.438e+05-4.874e+05-5.000e+05	
		67	11.44	-1.68	-14.84	-14.73	-1.79	-1.20-1.365e+05-2.540e+05-1.539e+05-2.366e+05-4.176e+04	
19	4	66	15.99	-14.17	-20.44	-16.16	-18.45	2.92-2.034e+05-3.533e+05-2.058e+05-3.509e+05-1.880e+04	
		68	44.41	30.54	-48.58	-20.56	2.53	-37.84-2.970e+05-6.637e+05-1.880e+05-1.787e+05-4.803e+05	
		69	45.02	22.15	-60.08	-14.35	-23.59	40.85-1.532e+05-7.765e+05-1.600e+05-6.832e+05-4.394e+05	
		67	11.69	-4.80	-15.27	-15.18	-4.90	-0.97-1.552e+05-2.578e+05-1.697e+05-2.433e+05-3.574e+04	
19	5	66	18.73	-13.03	-24.17	-16.70	-20.50	5.24-1.795e+05-4.143e+05-1.835e+05-4.103e+05-3.062e+04	
		68	68.11	67.16	-74.46	-23.96	16.67	-67.83-5.975e+05-8.999e+05-1.570e+05-1.453e+05-7.487e+05	
		69	67.59	51.30	-94.37	-14.20	-28.87	72.47-3.709e+05-1.069e+06-1.151e+05-5.832e+05-6.810e+05	
		67	12.08	4.02	-15.31	-15.14	3.85	-1.80-1.041e+05-2.665e+05-1.291e+05-2.415e+05-5.856e+04	
20	3	68	53.62	22.25	-94.80	-72.44	-0.12	-46.02-2.534e+04-1.014e+06-7.199e+05-2.691e+05-4.684e+05	
		13	36.54	-10.12	-99.29	-80.35	-29.06	36.48-3.176e+05-8.016e+05-6.060e+05-5.132e+05-2.375e+05	
		70	25.32	13.31	-59.07	-54.96	9.19	-16.76-1.927e+05-5.517e+05-4.491e+05-2.953e+05-1.622e+05	
		69	67.21	8.59	-137.42	-85.04	-43.79	70.03-6.940e+04-1.320e+06-7.615e+05-6.282e+05-2.619e+05	
20	4	68	47.84	14.65	-80.17	-62.05	-3.47	-37.28-1.299e+04-9.232e+05-6.660e+05-2.702e+05-4.098e+05	
		13	33.22	-11.44	-84.24	-68.60	-27.08	29.90-3.045e+05-7.310e+05-5.554e+05-4.802e+05-2.099e+05	
		70	23.39	7.46	-51.00	-47.55	4.02	-13.77-2.019e+05-5.138e+05-4.214e+05-2.943e+05-1.424e+05	
		69	59.93	3.76	-114.75	-72.00	-38.99	56.91-9.497e+04-1.193e+06-7.008e+05-5.868e+05-4.559e+05	
20	5	68	71.35	38.29	-130.15	-97.70	5.85	-66.43-1.164e+05-1.304e+06-9.007e+05-2.873e+05-6.407e+05	
		13	47.11	-8.73	-134.76	-108.51	-34.98	51.17-3.696e+05-1.027e+06-7.683e+05-6.282e+05-3.211e+05	
		70	31.92	24.88	-79.62	-74.08	19.34	-23.42-1.881e+05-6.828e+05-5.480e+05-3.229e+05-2.203e+05	
		69	89.51	18.21	-191.38	-116.80	-56.37	100.34-1.407e+04-1.720e+06-9.593e+05-7.752e+05-5.842e+05	
21	3	62	14.64	-15.08	-15.93	-15.74	-15.28	0.36-2.619e+05-2.972e+05-2.657e+05-2.933e+05-1.099e+04	
		65	14.52	-13.21	-15.53	-15.37	-13.38	0.59-2.354e+05-3.082e+05-2.474e+05-2.962e+05-2.703e+04	
		71	14.95	-14.55	-15.96	-15.89	-14.61	0.30-2.274e+05-3.227e+05-2.322e+05-3.179e+05-2.091e+04	
		63	14.58	-14.25	-16.23	-16.12	-14.36	0.46-2.533e+05-3.006e+05-2.554e+05-2.985e+05	-9662.44
21	4	62	14.72	-15.50	-16.13	-15.98	-15.65	0.27-2.658e+05-2.969e+05-2.692e+05-2.936e+05	-9627.28
		65	14.56	-14.05	-15.83	-15.71	-14.17	0.44-2.421e+05-3.063e+05-2.525e+05-2.959e+05-2.374e+04	
		71	14.90	-15.11	-16.17	-16.11	-15.17	0.24-2.349e+05-3.188e+05-2.391e+05-3.146e+05-1.822e+04	
		63	14.64	-14.84	-16.36	-16.27	-14.93	0.37-2.581e+05-2.998e+05-2.599e+05-2.980e+05	-8388.43
21	5	62	15.76	-15.55	-16.83	-16.55	-15.83	0.53-2.758e+05-3.239e+05-2.811e+05-3.187e+05-1.499e+04	
		65	15.71	-12.77	-16.25	-16.00	-13.02	0.91-2.399e+05-3.391e+05-2.563e+05-3.227e+05-3.690e+04	
		71	16.39	-14.73	-16.85	-16.75	-14.83	0.46-2.292e+05-3.591e+05-2.358e+05-3.524e+05-2.858e+04	
		63	15.70	-14.33	-17.29	-17.13	-14.49	0.67-2.642e+05-3.287e+05-2.671e+05-3.258e+05-1.323e+04	
22	3	65	14.99	-14.68	-17.50	-14.90	-17.29	0.75-2.379e+05-3.200e+05-2.439e+05-3.140e+05-2.133e+04	
		67	15.28	-6.85	-15.99	-15.20	-7.65	-2.58-1.513e+05-3.385e+05-2.162e+05-2.736e+05-8.913e+04	
		72	16.49	-14.06	-19.84	-15.97	-17.93	2.71-1.965e+05-3.656e+05-1.984e+05-3.637e+05-1.778e+04	
		71	14.18	-10.40	-16.74	-16.70	-10.44	0.51-2.204e+05-3.048e+05-2.307e+05-2.946e+05-2.757e+04	
22	4	65	14.96	-15.18	-17.49	-15.33	-17.33	0.57-2.443e+05-3.166e+05-2.495e+05-3.114e+05-1.874e+04	
		67	14.98	-8.90	-16.30	-15.59	-9.60	-2.17-1.675e+05-3.326e+05-2.243e+05-2.758e+05-7.837e+04	
		72	16.11	-14.73	-19.36	-16.24	-17.85	2.17-2.071e+05-3.557e+05-2.088e+05-3.541e+05-1.551e+04	
		71	14.24	-11.75	-16.79	-16.75	-11.79	0.42-2.289e+05-3.031e+05-2.377e+05-2.942e+05-2.403e+04	
22	5	65	16.37	-14.95	-19.01	-15.30	-18.66	1.14-2.435e+05-3.551e+05-2.517e+05-3.470e+05-2.911e+04	
		67	17.46	-3.59	-16.85	-15.80	-4.63	-3.57-1.255e+05-3.805e+05-2.144e+05-2.916e+05-1.215e+05	
		72	18.87	-13.88	-22.47	-16.69	-19.66	4.03-1.875e+05-4.181e+05-1.901e+05-4.155e+05-2.433e+04	
		71	15.31	-8.77	-17.98	-17.93	-8.83	0.74-2.195e+05-3.346e+05-2.336e+05-3.205e+05-3.773e+04	
23	3	67	23.05	-11.48	-39.41	-11.48	-39.41	-0.41-1.719e+05-5.024e+05-1.806e+05-4.937e+05-5.290e+04	
		69	55.07	59.81	-39.73	-15.19	35.26	-42.91-6.267e+05-5.929e+05-1.168e+05-1.505e+05-5.950e+05	
		73	44.43	5.13	-77.04	-19.30	-52.61	37.56-5.338e+04-8.772e+05-1.892e+05-7.414e+05-3.057e+05	
		72	10.57	17.12	-21.95	-21.90	17.07	1.41-4.183e+04-2.205e+05-1.780e+05-8.428e+04-7.604e+04	
23	4	67	21.68	-12.59	-35.35	-12.60	-35.34	-0.44-1.853e+05-4.765e+05-1.931e+05-4.687e+05-4.701e+04	
		69	48.28	45.04	-35.55	-15.50	24.99	-34.84-5.145e+05-5.551e+05-1.361e+05-4.552e+05-8.116e+05	
		73	39.92	0.49	-65.60	-19.09	-46.01	30.18-8.089e+04-8.028e+05-1.998e+05-6.838e+05-2.678e+05	
		72	10.51	10.59	-21.09	-21.05	10.55	1.15-7.237e+04-2.279e+05-1.911e+05-1.092e+05-6.616e+04	
23	5	67	28.34	-10.42	-50.34	-10.42	-50.33	-0.39-1.542e+05-6.039e+05-1.657e+05-5.924e+05-7.103e+04	
		69	75.35	92.39	-51.10	-16.15	57.43	-61.59-9.369e+05-7.273e+05-7.877e+05-4.884e+05-8.116e+05	
		73	58.53	14.51	-105.13	-21.06	-69.56	54.68-7336.49-1.118e+06-1.778e+05-9.326e+05-4.172e+05	
		72	12.22	30.74	-25.32	-25.24	30.66	2.10-2.488e+04-2.209e+05-1.620e+05-3.404e+04-1.049e+05	
24	3	69	39.78	42.85	-46.09	-37.18	33.93	-26.70-2.158e+05-6.311e+05-4.652e+05-4.993e+05-3.361e+05	
		70	34.90	-12.81	-97.79	-60.45	-50.15	42.18-3.915e+05-7.711e+05-5.085e+05-6.542e+05-1.753e+05	
		12	24.58	32.69	-61.76	-61.76	32.69	-0.47-2.701e+04-4.553e+05-4.419e+05-1.360e+04-7.929e+04	
		73	73.78	-13.77	-170.56	-104.73	-79.61	77.38-2.566e+05-1.523e+06-8.564e+05-9.232e+05-6.324e+05	

24	4	69	35.32	31.00	-40.74	-33.23	23.49	-21.96	1.536e+05-5.872e+05-4.409e+05	7363.05-2.949e+05
		70	32.11	-12.70	-82.91	-51.90	-43.71	34.87	-3.726e+05-7.096e+05-4.732e+05	6.090e+051.542e+05
		12	22.03	21.37	-53.39	-53.37	21.35	-1.48	-6016.12-4.240e+05-4.117e+05	-1.837e+04-7.080e+04
		73	65.74	-14.40	-141.29	-88.42	-67.26	62.55	-2.597e+05-1.369e+06-7.849e+05	-8.435e+055.537e+05
24	5	69	53.42	68.42	-60.25	-47.95	56.12	-37.84	3.770e+05-7.814e+05-5.555e+05	1.511e+05-4.590e+05
		70	44.18	-14.41	-134.23	-82.06	-66.58	59.41	-4.666e+05-9.754e+05-6.295e+05	-8.125e+052.373e+05
		12	32.61	55.91	-82.03	-82.01	55.89	1.53	1.086e+05-5.606e+05-5.435e+05	9.145e+04-1.057e+05
		73	98.23	-13.40	-239.75	-143.88	-109.27	111.84	-2.690e+05-2.000e+06-1.088e+06	-1.180e+068.641e+05
25	3	58	14.59	-14.55	-16.17	-15.04	-15.68	-0.74	-2.612e+05-2.959e+05-2.750e+05	-2.821e+051.700e+04
		63	14.77	-14.89	-16.62	-16.56	-14.95	-0.30	-2.549e+05-3.056e+05-2.707e+05	-2.898e+052.344e+04
		71	14.73	-12.74	-15.94	-14.20	-14.48	-1.60	-2.245e+05-3.179e+05-2.440e+05	-2.984e+053.791e+04
		74	15.12	-15.17	-17.74	-17.68	-15.22	-0.37	-2.406e+05-3.226e+05-3.828e+05	-2.804e+054.098e+04
25	4	58	14.67	-15.04	-16.28	-15.40	-15.92	-0.56	-2.652e+05-2.957e+05-2.775e+05	-2.835e+051.495e+04
		63	14.81	-15.34	-16.69	-16.66	-15.37	-0.20	-2.595e+05-3.041e+05-2.735e+05	-2.902e+052.069e+04
		71	14.71	-13.65	-16.15	-14.79	-15.01	-1.24	-2.324e+05-3.145e+05-2.497e+05	-2.972e+053.346e+04
		74	15.08	-15.54	-17.59	-17.56	-15.56	-0.22	-2.468e+05-3.189e+05-2.841e+05	-2.815e+053.063e+04
25	5	58	15.69	-14.81	-17.21	-15.55	-16.46	-1.11	-2.749e+05-3.222e+05-2.937e+05	-3.034e+052.317e+04
		63	15.97	-15.28	-17.82	-17.73	-15.37	-0.48	-2.665e+05-3.354e+05-2.878e+05	-3.140e+053.189e+04
		71	16.08	-12.14	-16.82	-14.29	-14.67	-2.33	-2.252e+05-3.525e+05-2.516e+05	-3.261e+055.159e+04
		74	16.55	-15.71	-19.43	-19.32	-15.82	-0.63	-2.471e+05-3.587e+05-3.828e+05	-2.841e+053.013e+05
26	3	74	13.98	-9.01	-16.39	-9.35	-16.05	-1.54	-2.238e+05-2.979e+05-2.592e+05	-2.625e+053.700e+04
		71	15.72	-14.14	-20.74	-20.69	-14.20	-0.58	-2.404e+05-3.389e+05-3.003e+05	-2.791e+054.811e+04
		72	15.90	-4.36	-16.29	-4.63	-16.02	-1.77	-1.324e+05-3.498e+05-1.921e+05	-2.902e+059.697e+04
		75	17.92	-14.00	-27.19	-26.90	-14.29	-1.92	-2.174e+05-3.967e+05-3.669e+05	-2.472e+055.678e+04
26	4	74	14.08	-10.60	-16.46	-10.84	-16.21	-1.18	-2.321e+05-2.971e+05-2.634e+05	-2.658e+053.244e+04
		71	15.58	-14.72	-20.10	-20.07	-14.75	-0.42	-2.463e+05-3.331e+05-2.992e+05	-2.802e+054.237e+04
		72	15.43	-6.86	-16.48	-7.08	-16.25	-1.45	-1.512e+05-3.417e+05-2.037e+05	-2.892e+058.514e+04
		75	17.39	-14.50	-25.34	-25.15	-14.69	-1.43	-2.256e+05-3.835e+05-3.577e+05	-2.515e+055.846e+04
26	5	74	14.99	-6.79	-17.54	-7.30	-17.02	-2.29	-2.241e+05-3.251e+05-2.722e+05	-2.770e+055.046e+04
		71	17.43	-14.21	-23.69	-23.61	-14.29	-0.88	-2.469e+05-3.811e+05-3.284e+05	-2.996e+056.551e+04
		72	18.57	-0.13	-17.18	-0.48	-16.83	-2.42	-0.997e+04-3.966e+05-1.812e+05	-3.153e+051.323e+05
		75	20.75	-14.23	-32.87	-32.41	-14.68	-2.89	-2.157e+05-4.599e+05-4.190e+05	-2.566e+059.116e+04
27	3	75	15.02	30.29	-21.90	30.01	-21.63	-3.79	5.274e+04-2.576e+05-3.252e+04	-2.373e+057.658e+04
		72	30.06	-8.06	-55.60	-55.59	-8.07	0.73	-2.028e+05-6.504e+05-6.188e+05	-2.343e+051.145e+05
		73	51.68	67.60	-27.76	63.56	-23.71	19.22	6.739e+05-4.645e+05-4.693e+05	-2.599e+054.371e+05
		76	53.05	-4.97	-100.01	-94.12	-10.86	-22.91	-2.224e+05-1.110e+06-1.107e+06	-2.253e+05-5.097e+04
27	4	75	13.85	21.14	-20.83	20.93	-20.62	-2.97	9980.72-2.603e+05-7516.66	-2.428e+056.650e+04
		72	27.74	-9.79	-48.39	-48.39	-9.80	0.58	-2.126e+05-6.056e+05-5.777e+05	-2.405e+051.009e+05
		73	45.11	51.47	-25.83	48.28	-22.64	15.39	5.564e+05-4.410e+05-3.772e+05	-2.617e+053.830e+05
		76	47.80	-6.96	-84.42	-79.72	-11.65	-18.48	-2.288e+05-1.009e+06-1.007e+06	-2.314e+05-4.509e+04
27	5	75	19.51	49.99	-25.65	49.59	-25.25	-5.50	1.542e+05-2.713e+05-1.261e+05	-2.432e+051.057e+05
		72	37.99	-5.38	-73.89	-73.87	-5.40	1.15	-1.962e+05-8.063e+05-7.639e+05	-2.387e+051.552e+05
		73	71.13	103.61	-33.57	97.53	-27.49	28.22	9.998e+05-5.542e+05-7.202e+05	-2.746e+055.969e+05
		76	69.64	-1.76	-137.53	-128.96	-10.33	-33.02	-2.226e+05-1.432e+06-1.428e+06	-2.266e+05-6.924e+04
28	3	76	73.77	-18.54	-174.77	-109.80	-83.51	-77.00	-3.334e+05-1.549e+06-1.145e+06	-7.372e+05-5.725e+05
		73	34.88	75.48	-20.14	73.12	-17.78	-14.82	4.200e+05-3.499e+05-4.189e+05	-3.489e+052.793e+04
		12	47.49	-20.33	-134.55	-88.40	-66.49	-56.05	-3.844e+05-1.037e+06-8.849e+05	-5.368e+05-2.762e+05
		77	15.99	64.47	-26.22	59.78	-21.53	-20.09	1.091e+05-2.355e+05-1.021e+05	-2.285e+054.871e+04
28	4	76	65.91	-17.98	-144.58	-92.10	-70.47	-62.37	-3.264e+05-1.393e+06-1.040e+06	-6.795e+05-5.021e+05
		73	30.50	57.53	-19.71	55.57	-17.75	-12.14	3.337e+05-3.409e+05-3.328e+05	-3.401e+052.384e+04
		12	42.92	-19.69	-111.93	-73.76	-57.86	-45.43	-3.607e+05-9.400e+05-8.065e+05	-4.942e+05-2.440e+05
		77	14.14	49.02	-23.96	45.10	-20.05	-16.44	6.012e+04-2.351e+05-5.351e+04	-2.285e+054.366e+04
28	5	76	97.96	-21.21	-245.55	-151.78	-114.98	-110.65	-3.738e+05-2.033e+06-1.480e+06	-9.264e+05-7.819e+05
		73	48.05	114.90	-22.24	111.63	-18.97	-20.92	6.538e+05-3.972e+05-6.524e+05	-3.957e+053.917e+04
		12	61.83	-23.42	-186.45	-121.87	-88.00	-79.74	-4.659e+05-1.344e+06-1.135e+06	-6.746e+05-3.737e+05
		77	22.00	98.78	-33.27	91.97	-26.46	-29.21	2.292e+05-2.543e+05-2.206e+05	-2.457e+056.392e+04
29	3	53	14.61	-14.99	-16.46	-15.16	-16.28	-0.47	-2.650e+05-2.940e+05-2.799e+05	-2.791e+051.451e+04
		58	14.82	-15.57	-17.19	-17.13	-15.64	-0.31	-2.654e+05-3.007e+05-2.789e+05	-2.872e+051.717e+04
		74	14.66	-13.82	-15.59	-14.46	-14.96	-0.85	-2.321e+05-3.134e+05-2.578e+05	-2.877e+053.779e+04
		78	15.21	-16.35	-18.15	-18.10	-16.40	-0.29	-2.428e+05-3.241e+05-2.934e+05	-2.735e+053.943e+04
29	4	53	14.69	-15.36	-16.49	-15.48	-16.37	-0.35	-2.687e+05-2.941e+05-2.818e+05	-2.810e+051.269e+04
		58	14.88	-15.86	-17.13	-17.09	-15.90	-0.22	-2.689e+05-3.000e+05-2.809e+05	-2.880e+051.512e+04
		74	14.67	-14.50	-15.80	-14.93	-15.37	-0.61	-2.393e+05-3.107e+05-2.621e+05	-2.879e+053.331e+04
		78	15.16	-16.46	-17.88	-17.85	-16.48	-0.19	-2.488e+05-3.201e+05-2.934e+05	-2.756e+053.453e+04
29	5	53	15.71	-15.49	-17.66	-15.76	-17.39	-0.72	-2.799e+05-3.196e+05-3.003e+05	-2.993e+051.984e+04
		58	16.01	-16.29	-18.68	-18.57	-16.39	-0.48	-2.806e+05-3.287e+05-2.990e+05	-3.103e+052.340e+04
		74	15.93	-13.70	-16.41	-14.71	-15.40	-1.31	-2.354e+05-3.461e+05-2.703e+05	-3.112e+055.144e+04
		78	16.67	-17.43	-20.10	-20.01	-17.52	-0.48	-2.499e+05-3.609e+05-3.191e+05	-2.917e+055.384e+04
30	3	78	13.92	-8.96	-16.44	-9.02	-16.38	-0.67	-2.211e+05-2.974e+05-2.536e+05	-2.648e+053.773e+04
		74	15.93	-15.12	-23.10	-23.07	-15.15	-0.47	-2.546e+05-3.392e+05-3.076e+05	-2.861e+054.092e+04
		75	15.05	-5.17	-13.78	-5.21	-13.74	-0.56	-1.364e+05-3.324e+05-1.949e+05	-2.401e+058.966e+04
		79	18.76	-16.95	-27.80	-27.80	-16.96	0.14	-2.081e+05-4.160e+05-3.670e+05	-2.571e+058.823e+04
30	4	78	14.03	-10.45	-16.49	-10.50	-16.45	-0.50	-2.299e+05-2.966e+05-2.585e+05	-2.680e+053.300e+04
		74	15.79	-15.51	-21.93	-21.91	-15.53	-0.31	-2.589e+05-3.335e+05-3.058e+05	-2.866e+053.604e+04
		75	14.74	-7.46	-14.39	-7.47	-14.38	-0.28	-1.548e+05-3.270e+05-2.67e+05	-2.751e+057.903e+04
		79	18.07	-17.03	-25.65	-25.64	-17.03	0.18	-2.177e+05-4.000e+05-3.572e+05	-2.606e+057.732e+04
30	5	78	14.92	-6.82	-17.62	-6.92	-17.53	-1.01	-2.202e+05-3.244e+05-2.647e+05	-2.799e+055.157e+04

		74	17.64	-15.61	-27.16	-27.11	-15.67	-0.77-2.662e+05-3.813e+05-3.384e+05-3.091e+055.570e+04
		75	17.27	-1.23	-13.81	-1.32	-13.72	-1.06-1.052e+05-3.722e+05-1.844e+05-2.930e+051.219e+05
		79	22.05	-18.15	-34.09	-34.09	-18.15	0.07-2.027e+05-4.866e+05-4.199e+05-2.694e+051.204e+05
31	3	79	18.26	35.94	-20.07	35.94	-20.07	1.38e-03 1.280e+05-2.676e+05 9.771e+04-2.373e+05 1.052e+05
		75	32.26	-10.00	-67.81	-67.81	-10.00	-0.22-2.452e+05-7.032e+05-6.778e+05-2.706e+051.048e+05
		76	45.49	69.96	-11.28	68.17	-9.50	11.91 6.740e+05-3.114e+05 5.493e+05-1.867e+05 3.277e+05
		80	53.38	-22.14	-98.50	-98.21	-22.43	-4.71-2.782e+05-1.134e+06-1.107e+06-3.051e+051.492e+05
31	4	79	16.44	26.05	-19.54	26.05	-19.54	0.04 7.643e+04-2.698e+05 5.006e+04-2.434e+05 9.183e+04
		75	29.75	-11.36	-58.21	-58.21	-11.36	0.04-2.495e+05-6.526e+05-6.300e+05-2.720e+059.263e+04
		76	39.50	53.33	-12.27	51.81	-10.74	9.89 5.555e+05-3.080e+05 4.453e+05-1.977e+05 2.881e+05
		80	48.02	-21.57	-82.87	-82.67	-21.76	-3.46-2.783e+05-1.028e+06-1.005e+06-3.019e+051.309e+05
31	5	79	24.47	57.60	-22.67	57.60	-22.67	-0.07 2.563e+05-2.841e+05-2.144e+05-2.421e+05 1.445e+05
		75	40.84	-8.30	-91.41	-91.41	-8.31	-0.62-2.542e+05-8.778e+05-8.438e+05-2.882e+051.415e+05
		76	63.09	107.05	-10.50	104.62	-8.06	16.75 1.001e+06-3.428e+05 8.320e+05-1.734e+05 4.460e+05
		80	70.10	-24.96	-136.07	-135.57	-25.46	-7.40-2.983e+05-1.468e+06-1.431e+06-3.348e+052.035e+05
32	3	80	63.54	-29.94	-156.34	-115.30	-70.98	-59.19-4.051e+05-1.367e+06-1.175e+06-5.970e+05-3.844e+05
		76	36.81	100.36	-1.57	82.37	16.42	-38.86 6.177e+05-1.484e+05 5.567e+05-8.746e+04-2.074e+05
		77	38.03	-10.62	-116.52	-91.07	-36.06	-45.25-3.997e+05-8.395e+05-8.110e+05-4.282e+05-1.084e+05
		11	25.23	77.01	-27.67	65.29	-15.95	-33.01 4.042e+05-1.276e+05 3.783e+05-1.017e+05-1.145e+05
32	4	80	56.98	-27.74	-129.26	-95.82	-61.18	-47.71-3.703e+05-1.233e+06-1.523e+06-7.333e+05-5.364e+05
		76	31.58	77.15	-4.10	62.80	10.26	-30.99 5.055e+05-1.636e+05 4.521e+05-1.103e+05-1.812e+05
		77	34.94	-10.35	-98.13	-76.98	-31.51	-37.54-3.786e+05-7.719e+05-7.472e+05-4.034e+05-9.555e+04
		11	21.46	56.35	-25.27	47.85	-16.77	-24.92 3.247e+05-1.353e+05 3.024e+05-1.130e+05-9.884e+04
32	5	80	83.80	-36.42	-219.93	-161.11	-95.24	-85.64-4.707e+05-1.786e+06-1.866e+06-5.833e+05-5.258e+05
		76	51.91	152.00	2.95	125.73	29.23	-56.80 9.252e+05-1.221e+05 8.419e+05-3.876e+04-2.834e+05
		77	48.30	-11.83	-161.09	-125.30	-47.63	-63.73-4.802e+05-1.064e+06-1.025e+06-5.191e+05-1.456e+05
		11	36.17	121.20	-34.06	102.58	-15.44	-50.45 6.233e+05-1.165e+05 5.871e+05-8.025e+04-1.598e+05
33	3	47	14.65	-15.42	-16.99	-15.47	-16.94	-0.28-2.632e+05-2.965e+05-2.849e+05-2.748e+051.587e+04
		53	14.86	-16.09	-17.62	-17.47	-16.24	-0.46-2.694e+05-2.991e+05-2.850e+05-2.834e+051.480e+04
		78	14.73	-14.37	-16.31	-14.43	-16.25	-0.34-2.337e+05-3.146e+05-2.665e+05-2.818e+053.970e+04
		81	15.18	-16.87	-18.86	-18.26	-17.47	-0.91-2.450e+05-3.223e+05-3.013e+05-2.660e+053.437e+04
33	4	47	14.72	-15.68	-16.90	-15.70	-16.88	-0.19-2.671e+05-2.962e+05-2.861e+05-2.772e+051.382e+04
		53	14.92	-16.24	-17.44	-17.34	-16.34	-0.34-2.725e+05-2.985e+05-2.863e+05-2.848e+051.298e+04
		78	14.74	-14.83	-16.40	-14.87	-16.37	-0.24-2.409e+05-3.117e+05-2.697e+05-2.829e+053.479e+04
		81	15.13	-16.84	-18.39	-17.98	-17.25	-0.68-2.508e+05-3.183e+05-3.002e+05-2.689e+052.990e+04
33	5	47	15.77	-16.15	-18.45	-16.24	-18.36	-0.44-2.776e+05-3.232e+05-3.073e+05-2.935e+052.174e+04
		53	16.02	-17.07	-19.33	-19.08	-17.31	-0.70-2.861e+05-3.265e+05-3.074e+05-2.802e+052.021e+04
		78	16.03	-14.62	-17.41	-14.73	-17.31	-0.53-2.375e+05-3.479e+05-2.822e+05-3.032e+055.423e+04
		81	16.62	-18.25	-21.17	-20.22	-19.20	-1.37-2.528e+05-3.587e+05-3.298e+05-2.817e+054.714e+04
34	3	81	13.94	-9.60	-17.44	-9.63	-17.41	-0.46-2.208e+05-2.980e+05-2.515e+05-2.672e+053.778e+04
		78	15.95	-16.06	-23.63	-23.57	-16.11	-0.65-2.589e+05-3.380e+05-3.066e+05-2.962e+053.869e+04
		79	15.37	-4.04	-16.56	-4.05	-16.54	-0.44-1.330e+05-3.387e+05-1.830e+05-2.886e+058.824e+04
		82	18.41	-17.69	-28.28	-28.14	-17.83	-1.22-2.184e+05-4.077e+05-3.607e+05-2.654e+058.180e+04
34	4	81	14.03	-10.96	-17.24	-10.98	-17.22	-0.30-2.297e+05-2.968e+05-2.565e+05-2.700e+053.290e+04
		78	15.81	-16.20	-22.32	-22.28	-16.24	-0.48-2.628e+05-3.323e+05-3.049e+05-2.902e+053.396e+04
		79	14.98	-6.38	-16.68	-6.39	-16.67	-0.40-1.521e+05-3.322e+05-1.960e+05-2.834e+057.732e+04
		82	17.78	-17.29	-26.17	-26.07	-17.39	-0.94-2.270e+05-3.925e+05-3.520e+05-2.675e+057.115e+04
34	5	81	14.97	-7.76	-19.12	-7.81	-19.07	-0.74-2.197e+05-3.255e+05-2.618e+05-2.834e+055.180e+04
		78	17.66	-17.04	-27.97	-27.88	-17.13	-0.98-2.718e+05-3.798e+05-3.370e+05-3.146e+055.282e+04
		79	17.79	0.10	-17.59	0.08	-17.58	-0.54-1.003e+05-3.810e+05-1.688e+05-3.125e+051.206e+05
		82	21.49	-19.75	-34.51	-34.30	-19.96	-1.75-2.166e+05-4.758e+05-4.109e+05-2.814e+051.123e+05
35	3	82	19.93	34.24	-21.78	34.23	-21.76	-0.98 1.434e+05-2.892e+05 1.231e+05-2.688e+05 9.151e+04
		79	30.97	-13.15	-67.63	-67.63	-13.15	-0.41-2.770e+05-6.815e+05-6.482e+05-3.103e+051.112e+05
		80	39.75	68.38	-14.95	67.66	-14.23	-7.73 6.023e+05-2.544e+05 5.762e+05-2.283e+05 1.472e+05
		83	58.46	-17.71	-103.91	-102.72	-18.90	10.06-2.288e+05-1.218e+06-1.107e+06-3.394e+053.117e+05
35	4	82	17.83	24.45	-20.60	24.43	-20.59	-0.74 8.954e+04-2.880e+05 7.207e+04-2.705e+05 7.931e+04
		79	28.66	-13.89	-57.92	-57.92	-13.89	-0.37-2.780e+05-6.330e+05-6.036e+05-3.073e+059.784e+04
		80	34.46	52.54	-15.73	51.91	-15.10	-6.51 4.935e+05-2.575e+05 4.707e+05-2.347e+05 1.289e+05
		83	52.42	-16.92	-87.48	-86.55	-17.85	8.05-2.355e+05-1.103e+06-1.007e+06-3.315e+052.721e+05
35	5	82	26.82	55.56	-25.61	55.54	-25.58	-1.40 2.778e+05-3.144e+05 2.494e+05-2.860e+05 1.266e+05
		79	38.94	-12.76	-91.44	-91.44	-12.76	-0.51-2.968e+05-8.487e+05-8.038e+05-3.418e+051.510e+05
		80	55.32	103.96	-14.63	103.00	-13.67	-10.63 9.022e+05-2.656e+05 8.665e+05-2.299e+05 2.010e+05
		83	77.20	-20.40	-143.33	-141.54	-22.19	14.74-2.301e+05-1.582e+06-1.430e+06-3.822e+054.272e+05
36	3	83	54.51	-25.20	-137.73	-118.25	-44.68	-42.57-3.677e+05-1.177e+06-1.113e+06-4.317e+05-2.184e+05
		80	47.79	127.01	-6.50	86.32	34.18	-61.45 8.370e+05-1.374e+05 6.397e+05 5.995e+04-3.916e+05
		11	41.05	-6.31	-122.62	-102.39	-26.54	-44.08-2.352e+05-8.753e+05-8.413e+05-2.693e+05-1.437e+05
		84	15.70	84.86	-9.34	61.33	14.19	-40.78 2.806e+05-3.152e+04 2.464e+05 2.663e+05-9.747e+04
36	4	83	49.20	-22.86	-114.74	-98.90	-38.70	-34.70-3.556e+05-1.068e+06-1.012e+06-4.120e+05-1.924e+05
		80	41.25	99.72	-8.90	66.65	24.17	-49.98 6.996e+05-1.555e+05 5.264e+05 1.769e+04-3.437e+05
		11	37.23	-8.82	-102.35	-85.24	-25.93	-36.16-2.299e+05-7.987e+05-7.683e+05-2.603e+05-1.280e+05
		84	12.83	66.15	-9.62	47.05	9.48	-32.89 2.108e+05-5.566e+04 1.802e+05-2.508e+05-1.492e+04
36	5	83	71.27	-31.49	-191.92	-164.08	-59.33	-60.76-4.220e+05-1.524e+06-1.437e+06-5.090e+05-2.971e+05
		80	66.88	188.68	-2.50	130.21	55.97	-88.09 1.222e+06-1.053e+05 9.532e+05 1.638e+05-5.337e+05
		11	53.14	-2.37	-169.69	-142.05	-30.00	-62.13-2.627e+05-1.120e+06-1.075e+06-3.082e+05-1.921e+05
		84	23.88	127.57	-9.61	93.56	24.40	-59.23 4.635e+05 2.165e+04 4.172e+05 6.794e+04-1.353e+05
37	3	48	14.74	-15.97	-17.67	-16.03	-17.62	-0.29-2.566e+05-3.035e+05-2.905e+05-2.696e+052.093e+04
		47	14.88	-16.45	-18.02	-17.56	-16.92	-0.72-2.675e+05-3.010e+05-2.891e+05-2.794e+051.601e+04

		81	14.73	-15.02	-17.18	-15.08	-17.12	-0.36-2.361e+05-3.137e+05-2.774e+05-2.724e+053.870e+04
		85	15.20	-17.04	-19.51	-18.39	-18.16	-1.23-2.371e+05-3.261e+05-3.107e+05-2.525e+053.372e+04
37	4	48	14.78	-16.09	-17.41	-16.12	-17.38	-0.20-2.612e+05-3.020e+05-2.909e+05-2.724e+051.819e+04
		47	14.92	-16.52	-17.73	-17.39	-16.86	-0.54-2.708e+05-3.001e+05-2.898e+05-2.811e+051.397e+04
		81	14.74	-15.37	-17.00	-15.40	-16.98	-0.21-2.431e+05-3.107e+05-2.793e+05-2.745e+053.375e+04
		85	15.12	-17.02	-18.80	-18.00	-17.82	-0.88-2.436e+05-3.214e+05-3.081e+05-2.569e+052.928e+04
37	5	48	15.92	-16.97	-19.48	-17.07	-19.38	-0.47-2.686e+05-3.328e+05-3.150e+05-2.864e+052.872e+04
		47	16.09	-17.61	-19.96	-19.25	-18.32	-1.08-2.834e+05-3.292e+05-3.129e+05-2.997e+052.194e+04
		81	16.03	-15.54	-18.80	-15.66	-18.69	-0.60-2.407e+05-3.469e+05-2.971e+05-2.906e+055.301e+04
		85	16.71	-18.40	-22.27	-20.51	-20.16	-1.93-2.422e+05-3.640e+05-3.428e+05-2.635e+054.624e+04
38	3	85	14.32	-11.72	-18.49	-11.74	-18.47	-0.38-2.185e+05-3.088e+05-2.564e+05-2.709e+054.455e+04
		81	15.74	-16.19	-23.65	-23.36	-16.48	-1.44-2.584e+05-3.321e+05-3.012e+05-2.898e+053.640e+04
		82	14.58	-6.49	-17.17	-6.73	-16.93	-1.59-1.577e+05-3.235e+05-1.918e+05-2.895e+056.701e+04
		86	18.43	-17.55	-27.48	-27.48	-17.56	-0.22-1.927e+05-4.085e+05-3.539e+05-2.473e+059.380e+04
38	4	85	14.33	-12.55	-18.11	-12.56	-18.10	-0.22-2.275e+05-3.061e+05-2.606e+05-2.729e+053.882e+04
		81	15.62	-16.30	-22.27	-22.06	-16.51	-1.08-2.624e+05-3.270e+05-3.002e+05-2.802e+053.185e+04
		82	14.37	-8.54	-16.86	-8.69	-16.71	-1.11-1.740e+05-3.185e+05-2.042e+05-2.884e+055.870e+04
		86	17.73	-17.50	-25.22	-25.22	-17.51	0.11-2.040e+05-3.930e+05-3.455e+05-2.515e+058.200e+04
38	5	85	15.53	-10.97	-20.62	-11.01	-20.58	-0.66-2.167e+05-3.404e+05-2.685e+05-2.886e+056.102e+04
		81	17.36	-17.23	-28.08	-27.62	-17.69	-2.18-2.712e+05-3.321e+05-3.296e+05-3.137e+054.979e+04
		82	16.44	-3.09	-19.04	-3.50	-18.63	-2.51-1.337e+05-3.609e+05-1.800e+05-3.145e+059.157e+04
		86	21.71	-18.99	-33.83	-33.79	-19.03	-0.75-1.823e+05-4.769e+05-4.022e+05-2.570e+051.282e+05
39	3	86	20.53	24.19	-25.72	24.12	-25.65	1.871.002e+05-3.337e+057.244e+04-3.059e+051.062e+05
		82	27.75	-9.73	-63.94	-63.78	-9.90	-2.97-2.757e+05-6.130e+05-5.900e+05-2.988e+058.510e+04
		83	38.67	65.01	-22.59	59.12	-16.70	-21.935.449e+05-2.989e+055.426e+05-2.966e+05-4.395e+04
		87	61.10	-6.79	-101.60	-95.12	-13.26	23.91-5.680e+04-1.199e+06-9.947e+05-2.612e+054.378e+05
39	4	86	18.58	16.80	-24.19	16.73	-24.12	1.725.230e+04-3.271e+052.819e+04-3.030e+059.256e+04
		82	25.91	-10.98	-55.00	-54.89	-11.09	-2.16-2.761e+05-5.735e+05-5.531e+05-2.965e+057.510e+04
		83	33.50	49.22	-20.79	44.52	-16.09	-17.534.411e+05-2.956e+054.392e+05-2.936e+05-3.816e+04
		87	54.51	-8.82	-85.71	-80.02	-14.51	20.12-8.350e+04-1.085e+06-9.059e+05-2.626e+053.838e+05
39	5	86	27.14	40.38	-30.70	40.30	-30.62	2.382.182e+05-3.751e+051.797e+05-3.366e+051.461e+05
		82	34.39	-8.12	-85.91	-85.64	-8.40	-4.62-2.963e+05-7.546e+05-7.236e+05-3.273e+051.151e+05
		83	53.79	100.11	-27.61	91.57	-19.07	-31.918.267e+05-3.276e+058.236e+05-3.244e+05-6.033e+04
		87	81.28	-3.41	-139.86	-131.23	-12.05	33.232365.08-1.557e+06-1.278e+06-2.765e+055.977e+05
40	3	87	45.83	-18.65	-103.79	-102.28	-20.16	-11.23-1.751e+05-9.522e+05-9.505e+05-1.768e+053.631e+04
		83	57.94	138.88	-9.51	73.31	56.07	-73.699.995e+05-1.924e+055.824e+052.247e+05-5.685e+05
		84	30.51	7.60	-95.48	-88.78	0.90	-25.41-2.049e+05-6.582e+05-6.533e+05-2.098e+054.704e+04
		32	30.55	82.09	-9.62	49.36	23.11	-43.945.872e+056755.154.222e+051.717e+05-2.618e+05
40	4	87	41.33	-19.27	-86.07	-84.96	-20.37	-8.52-1.874e+05-8.690e+05-8.674e+05-1.889e+053.239e+04
		83	50.06	108.55	-10.25	55.45	42.85	-59.078.406e+05-2.026e+054.741e+051.639e+05-4.981e+05
		84	28.17	5.26	-80.35	-74.33	-0.77	-21.90-2.076e+05-6.120e+05-6.078e+05-2.118e+054.102e+04
		32	25.90	59.16	-10.22	34.61	14.33	-33.184.855e+05-1.903e+043.396e+051.269e+05-2.288e+05
40	5	87	59.99	-19.24	-145.04	-142.67	-21.60	-17.10-1.588e+05-1.220e+06-1.217e+06-1.610e+054.846e+04
		83	80.78	207.12	-8.67	112.75	85.70	-107.041.446e+06-1.817e+058.781e+053.859e+05-7.756e+05
		84	38.57	13.36	-131.72	-122.90	4.54	-34.67-2.140e+05-8.202e+05-8.129e+05-2.212e+056.590e+04
		32	43.98	130.43	-8.88	80.06	41.48	-66.938.727e+057.019e+046.502e+052.927e+05-3.593e+05
41	3	88	15.11	-16.84	-19.53	-17.04	-19.32	0.71-2.513e+05-3.175e+05-3.047e+05-2.641e+05-2.617e+04
		46	14.82	-16.70	-17.47	-16.88	-17.28	0.33-2.667e+05-2.995e+05-2.953e+05-2.708e+05-1.087e+04
		48	14.89	-16.36	-18.31	-16.46	-18.21	0.44-2.612e+05-3.054e+05-3.026e+05-2.641e+05-1.091e+04
		85	15.02	-16.72	-17.99	-16.99	-17.72	0.52-2.328e+05-3.226e+05-3.164e+05-2.390e+05-2.280e+04
41	4	88	15.08	-16.74	-18.88	-16.90	-18.73	0.56-2.564e+05-3.140e+05-3.027e+05-2.677e+05-2.288e+04
		46	14.87	-16.69	-17.24	-16.84	-17.10	0.24-2.702e+05-2.987e+05-2.951e+05-2.738e+05-9521.34
		48	14.92	-16.43	-17.92	-16.51	-17.83	0.35-2.652e+05-3.038e+05-3.012e+05-2.678e+05-9643.54
		85	14.96	-16.66	-17.66	-16.96	-17.36	0.46-2.399e+05-3.183e+05-3.127e+05-2.455e+05-2.011e+04
41	5	88	16.49	-18.30	-22.18	-18.60	-21.88	1.03-2.615e+05-3.521e+05-3.347e+05-2.789e+05-3.574e+04
		46	16.00	-18.00	-19.19	-18.27	-18.92	0.50-2.824e+05-3.272e+05-3.216e+05-2.880e+05-1.486e+04
		48	16.13	-17.51	-20.42	-17.66	-20.27	0.64-2.749e+05-3.355e+05-3.316e+05-2.788e+05-1.486e+04
		85	16.47	-18.06	-19.96	-18.36	-19.66	0.69-2.364e+05-3.593e+05-3.508e+05-2.448e+05-3.106e+04
42	3	89	17.59	-15.81	-26.18	-16.18	-25.81	-1.94-2.150e+05-3.894e+05-3.207e+05-2.837e+05-8.522e+04
		88	14.80	-15.11	-17.93	-17.65	-15.39	0.84-2.397e+05-3.139e+05-3.077e+05-2.459e+05-2.049e+04
		85	15.58	-15.99	-21.98	-16.05	-21.92	0.63-2.499e+05-3.314e+05-3.183e+05-2.630e+05-2.994e+04
		86	15.38	-11.38	-20.34	-18.04	-13.68	3.92-1.805e+05-3.410e+05-3.385e+05-1.829e+05-1.968e+04
42	4	89	17.07	-15.69	-24.33	-15.98	-24.04	-1.53-2.241e+05-3.763e+05-3.158e+05-2.846e+05-7.444e+04
		88	14.79	-15.33	-17.62	-17.41	-15.53	0.65-2.462e+05-3.108e+05-3.053e+05-2.517e+05-1.789e+04
		85	15.47	-16.12	-20.83	-16.19	-20.77	0.54-2.548e+05-3.261e+05-3.145e+05-2.665e+05-2.639e+04
		86	15.10	-12.03	-19.88	-17.96	-13.95	3.37-1.935e+05-3.336e+05-3.314e+05-1.956e+05-1.739e+04
42	5	89	20.34	-17.10	-31.67	-17.69	-31.08	-2.89-2.120e+05-4.507e+05-3.571e+05-3.056e+05-1.165e+05
		88	16.10	-15.81	-19.85	-19.44	-16.22	1.22-2.457e+05-3.473e+05-3.389e+05-2.541e+05-2.799e+04
		85	17.18	-16.96	-25.79	-17.05	-25.70	0.87-2.598e+05-3.712e+05-3.535e+05-2.775e+05-4.076e+04
		86	17.40	-10.84	-22.84	-19.62	-14.07	5.32-1.655e+05-3.848e+05-3.815e+05-1.688e+05-2.675e+04
43	3	90	61.99	9.40	-91.98	-12.62	-69.95	-41.804.683e+04-1.165e+06-4.049e+05-3.133e+05-5.860e+05
		89	17.61	5.77	-20.08	-20.07	5.76	0.52-5.562e+04-3.625e+05-3.563e+05-6.177e+04-4.303e+04
		86	23.24	-11.85	-48.55	-12.00	-48.39	2.38-3.137e+05-5.105e+05-3.614e+05-4.627e+05-8.438e+04
		87	37.31	48.16	-44.56	-17.94	21.54	41.953.526e+05-4.696e+05-3.326e+052.156e+053.064e+05
43	4	90	55.18	5.05	-77.40	-12.47	-59.89	-33.735739.16-1.056e+06-3.887e+05-6.615e+05-5.130e+05
		89	16.59	1.51	-19.17	-19.16	1.50	0.48-8.474e+04-3.523e+05-3.471e+05-8.998e+04-3.708e+04
		86	22.09	-12.89	-42.21	-13.04	-42.06	2.11-3.094e+05-4.831e+05-3.516e+05-4.409e+05-7.451e+04

		87	32.87	36.55	-40.15	-18.37	14.77	34.59	2.750e+05-4.454e+05-3.253e+05	1.550e+05	2.685e+05
43	5	90	82.75	18.74	-126.73	-13.53	-94.45	-60.44	1.459e+05-1.509e+06-4.720e+05-8.910e+05-8.005e+05		
		89	21.75	14.43	-23.25	-23.24	14.42	0.60	5852.38-4.144e+05-4.057e+05	-2880.47-5.995e+04	
		86	27.85	-10.79	-64.27	-10.98	-64.09	3.14	-3.483e+05-6.149e+05-4.125e+05-5.507e+05-1.140e+05		
		87	50.76	74.30	-56.60	-18.68	36.38	59.38	5.610e+05-5.611e+05-3.738e+05	3.738e+05	4.184e+05
44	3	91	15.75	65.86	-5.27	38.64	21.95	34.57	2.542e+05-7.631e+04	7.957e+04	9.833e+04
		90	42.96	16.21	-76.31	9.83	-69.92	-23.46	1.059e+05-7.650e+05-4.755e+04-6.116e+05-3.318e+05		
		87	61.00	139.86	-22.89	66.86	50.11	80.95	1.002e+06-2.784e+05	3.305e+05	3.935e+05
		32	28.17	21.96	-74.46	20.32	-72.83	12.45	8.177e+04-4.927e+05	7.557e+04-4.865e+05-5.935e+05	
44	4	91	13.36	50.89	-5.56	29.99	15.34	27.26	1.909e+05-9.812e+04	4.198e+04	5.076e+04
		90	38.47	10.67	-64.69	5.70	-59.73	-18.69	5.890e+04-7.062e+05-7.489e+04-5.724e+05-2.906e+05		
		87	52.96	110.42	-22.43	50.34	37.65	66.12	8.449e+05-2.787e+05	2.557e+05	3.106e+05
		32	25.51	13.42	-63.49	11.64	-61.71	11.54	4.754e+04-4.624e+05	4.234e+04-4.572e+05-5.123e+04	
44	5	91	23.08	99.98	-4.75	58.73	36.50	51.17	4.213e+05-3.370e+04	1.734e+05	2.141e+05
		90	56.98	28.39	-104.05	18.77	-94.42	-34.37	2.244e+05-9.617e+05	1.464e+04-7.519e+05-4.525e+05	
		87	84.61	206.94	-25.81	103.45	77.68	115.66	1.447e+06-2.989e+05	5.315e+05	6.172e+05
		32	36.74	39.55	-100.42	37.86	-98.73	15.29	1.713e+05-5.998e+05	1.624e+05-5.908e+05-8.277e+04	
45	3	92	14.98	-17.02	-19.14	-17.05	-19.11	0.25	2.558e+05-3.112e+05-3.090e+05-2.581e+05-1.088e+04		
		44	14.85	-16.71	-17.67	-16.75	-17.63	0.19	2.698e+05-2.982e+05-2.974e+05-2.706e+05	-4709.62	
		46	14.86	-16.64	-18.01	-16.64	-17.01	-8.01e-03	2.683e+05-2.998e+05-2.998e+05-2.715e+05	-9.78	
		88	14.98	-16.92	-18.54	-16.94	-18.52	0.17	2.478e+05-3.153e+05-3.153e+05-2.478e+05	-392.57	
45	4	92	14.97	-16.95	-18.51	-16.97	-18.49	0.17	2.604e+05-3.086e+05-3.067e+05-2.623e+05	-9477.73	
		44	14.90	-16.69	-17.42	-16.73	-17.38	0.15	2.729e+05-2.977e+05-2.970e+05-2.736e+05	-4091.71	
		46	14.91	-16.65	-17.68	-16.65	-17.68	2.95e-03	2.715e+05-2.991e+05-2.991e+05-2.715e+05	-75.07	
		88	14.96	-16.82	-18.06	-16.84	-18.05	0.12	2.533e+05-3.121e+05-3.121e+05-2.533e+05	-506.39	
45	5	92	16.28	-18.46	-21.70	-18.51	-21.65	0.40	2.677e+05-3.434e+05-3.404e+05-2.708e+05-1.484e+04		
		44	16.03	-18.05	-19.47	-18.10	-19.42	0.28	2.866e+05-3.255e+05-3.244e+05-2.877e+05	-6451.36	
		46	16.02	-17.92	-19.97	-17.92	-19.97	-0.02	2.845e+05-3.277e+05-3.277e+05-2.845e+05	39.73	
		88	16.32	-18.39	-20.77	-18.42	-20.74	0.26	2.567e+05-3.492e+05-3.492e+05-2.567e+05	-386.07	
46	3	93	15.84	-15.87	-23.19	-16.98	-22.09	-2.62	2.257e+05-3.458e+05-3.218e+05-2.496e+05-4.801e+04		
		92	14.95	-16.68	-18.47	-17.14	-18.02	0.78	2.534e+05-3.119e+05-3.117e+05-2.536e+05	-3544.96	
		88	15.24	-16.81	-20.46	-16.85	-20.42	-0.39	2.563e+05-3.189e+05-3.177e+05-2.576e+05	-8829.52	
		89	15.82	-14.17	-20.85	-17.37	-17.66	3.34	-2.031e+05-3.493e+05-3.441e+05-2.185e+05	7.710e+04	
46	4	93	15.62	-15.97	-21.80	-17.05	-20.72	-2.27	2.332e+05-3.383e+05-3.172e+05-2.543e+05-4.204e+04		
		92	14.95	-16.63	-17.99	-17.02	-17.61	0.61	2.582e+05-3.092e+05-3.090e+05-2.584e+05	-3023.17	
		88	15.20	-16.75	-19.63	-16.78	-19.59	-0.32	2.607e+05-3.153e+05-3.141e+05-2.619e+05	-7908.68	
		89	15.53	-14.62	-19.79	-17.02	-17.39	2.58	-2.140e+05-3.408e+05-3.364e+05-2.185e+05	2.333e+04	
46	5	93	17.70	-16.84	-27.55	-18.20	-26.19	-3.57	2.271e+05-3.908e+05-3.581e+05-2.598e+05-6.544e+04		
		92	16.25	-18.04	-20.71	-18.67	-20.07	1.14	-2.643e+05-3.443e+05-3.440e+05-2.646e+05	-4882.10	
		88	16.66	-18.20	-23.54	-18.25	-23.48	-0.55	2.684e+05-3.540e+05-3.523e+05-2.701e+05-1.188e+04		
		89	17.86	-14.36	-24.34	-19.29	-19.42	4.99	1.956e+05-3.962e+05-3.890e+05-2.029e+05	3.749e+04	
47	3	94	53.21	24.69	-78.24	-15.42	-38.13	-50.19	1.904e+05-9.114e+05-3.572e+05-3.638e+05-5.509e+05		
		93	16.10	-11.32	-19.09	-17.41	-13.01	3.20	1.845e+05-3.570e+05-3.525e+05-1.891e+05	2.757e+04	
		89	19.18	-16.75	-32.07	-17.03	-31.79	-2.05	2.872e+05-4.153e+05-3.844e+05-3.180e+05-5.481e+04		
		90	47.38	36.88	-61.11	-14.55	-9.68	48.93	2.827e+05-7.331e+05-3.810e+05-6.942e+05	0.44	8.834e+05
47	4	94	47.29	17.18	-67.00	-16.30	-33.53	-41.20	1.327e+05-8.331e+05-3.474e+05-3.530e+05-4.829e+05		
		93	15.75	-12.13	-18.55	-17.36	-13.31	2.49	1.971e+05-3.483e+05-3.442e+05-2.012e+05	2.457e+04	
		89	18.58	-16.51	-29.14	-16.78	-28.87	-1.82	2.865e+05-3.997e+05-3.717e+05-3.145e+05-4.884e+04		
		90	41.89	26.78	-51.98	-14.20	-11.00	39.35	2.115e+05-6.763e+05-3.680e+05-9.677e+05	0.44	2.27e+05
47	5	94	71.28	41.11	-105.84	-15.13	-49.60	-71.42	3.404e+05-1.164e+06-4.064e+05-4.171e+05-7.521e+05		
		93	18.35	-10.49	-21.56	-18.86	-13.20	4.76	1.712e+05-4.056e+05-3.997e+05-1.771e+05	0.53	6.77e+04
		89	22.16	-18.41	-40.05	-18.76	-39.70	-2.71	-3.120e+05-4.847e+05-4.439e+05-3.527e+05-7.333e+04		
		90	63.92	59.11	-82.94	-16.06	-7.77	70.91	4.691e+05-9.209e+05-4.390e+05-1.278e+05	0.46	6.15e+05
48	3	31	22.76	48.01	-19.87	38.25	-10.11	23.82	3.819e+05-9.215e+04	2.409e+05	4.882e+04
		94	47.82	61.33	-54.38	35.38	-28.43	-48.26	4.889e+05-5.676e+05	1.831e+05-2.619e+05-4.791e+05	
		90	56.45	102.82	-38.37	56.77	7.68	66.19	7.751e+05-4.593e+05	2.459e+05	6.984e+04
		91	20.06	34.37	-38.84	33.07	-37.55	-9.64	9.289e+04-3.286e+05	1.640e+04-2.522e+05-1.625e+05	
48	4	31	19.54	32.77	-18.81	26.19	-12.23	17.21	3.086e+05-1.076e+05	1.877e+05	1.340e+04
		94	42.05	46.54	-47.05	24.77	-25.28	-39.54	3.945e+05-5.325e+05	1.260e+05-2.640e+05-4.205e+05	
		90	49.18	79.96	-33.73	43.55	2.69	53.05	6.443e+05-4.368e+05	1.821e+05	2.541e+04
		91	18.37	26.30	-33.39	25.55	-32.63	-6.68	5.223e+04-3.227e+05-1.360e+04-2.569e+05-1.427e+05		
48	5	31	32.35	79.92	-23.31	63.69	-7.08	37.57	5.856e+05-6.079e+04	3.872e+05	1.376e+05
		94	65.20	94.41	-72.48	58.15	-36.22	-68.82	7.475e+05-6.933e+05	3.313e+05-2.772e+05-6.530e+05	
		90	77.85	154.42	-50.01	86.65	17.76	96.24	1.139e+06-5.464e+05	4.158e+05	1.772e+05
		91	26.09	53.07	-51.76	50.68	-49.37	-15.66	1.954e+05-3.711e+05	8.764e+04-2.634e+05-2.223e+05	
49	3	95	14.97	-16.94	-18.53	-16.95	-18.52	-0.16	2.480e+05-3.151e+05-3.151e+05-2.480e+05	425.48	
		42	14.86	-16.64	-18.00	-16.64	-18.00	0.02	2.684e+05-2.998e+05-2.998e+05-2.684e+05	31.72	
		44	14.85	-16.72	-17.67	-16.75	-17.64	-0.18	2.698e+05-2.982e+05-2.974e+05-2.706e+05	4760.64	
		92	14.98	-17.02	-19.14	-17.04	-19.11	-0.25	2.558e+05-3.112e+05-3.090e+05-2.581e+05	1.102e+04	
49	4	95	14.95	-16.84	-18.06	-16.85	-18.05	-0.12	2.534e+05-3.119e+05-3.119e+05-2.534e+05	539.98	
		42	14.91	-16.65	-17.68	-16.65	-17.68	0.01	-2.716e+05-2.990e+05-2.990e+05-2.716e+05	99.89	
		44	14.90	-16.70	-17.42	-16.72	-17.39	-0.14	2.729e+05-2.977e+05-2.970e+05-2.736e+05	4142.18	
		92	14.97	-16.95	-18.51	-16.96	-18.49	-0.16	2.603e+05-3.086e+05-3.066e+05-2.623e+05	9607.94	
49	5	95	16.31	-18.41	-20.76	-18.44	-20.74	-0.26	2.569e+05-3.489e+05-3.488e+05-2.569e+05	442.95	
		42	16.06	-17.92	-19.96	-17.92	-19.96	0.04	-2.846e+05-3.276e+05-3.276e+05-2.846e+05	4.07	
		44	16.03	-18.05	-19.48	-18.10	-19.42	-0.27	2.866e+05-3.255e+05-3.243e+05-2.877e+05	6535.93	
		92	16.28	-18.46	-21.70	-18.51	-21.65	-0.40	2.677e+05-3.434e+05-3.403e+05-2.709e+05	1.506e+04	

50	3	96	15.80	-14.17	-20.91	-17.38	-17.69	-3.37-2.034e+05-3.487e+05-3.435e+05-2.086e+05-2.700e+04
		95	15.24	-16.82	-20.45	-16.86	-20.40	0.39-2.565e+05-3.187e+05-3.174e+05-2.577e+05 8854.16
		92	14.95	-16.69	-18.48	-17.14	-18.02	-0.78-2.534e+05-3.118e+05-3.116e+05-2.536e+05 3694.43
		93	15.84	-15.83	-23.21	-16.95	-22.09	2.65-2.255e+05-3.460e+05-3.218e+05-2.497e+05 825e+04
50	4	96	15.52	-14.60	-19.84	-17.02	-17.43	-2.61-2.143e+05-3.403e+05-3.359e+05-2.187e+05-2.324e+04
		95	15.20	-16.76	-19.62	-16.79	-19.58	0.33-2.608e+05-3.151e+05-3.139e+05-2.620e+05 7936.57
		92	14.95	-16.64	-17.99	-17.02	-17.62	-0.61-2.582e+05-3.091e+05-3.089e+05-2.584e+05 3160.98
		93	15.62	-15.91	-21.83	-17.02	-20.73	2.30-2.331e+05-3.384e+05-3.172e+05-2.543e+05 227e+04
50	5	96	17.83	-14.37	-24.41	-19.33	-19.44	-5.02-1.960e+05-3.954e+05-3.881e+05-2.033e+05-3.735e+04
		95	16.65	-18.21	-23.52	-18.27	-23.46	0.15-2.686e+05-3.537e+05-3.520e+05-2.703e+05 1.192e+04
		92	16.25	-18.04	-20.73	-18.68	-20.08	-1.15-2.644e+05-3.443e+05-3.439e+05-2.647e+05 5110.12
		93	17.71	-16.81	-27.56	-18.18	-26.19	3.58-2.269e+05-3.910e+05-3.580e+05-2.599e+05 56.579e+04
51	3	97	47.32	36.83	-61.14	-14.39	-9.92	-48.94 2.823e+05-7.323e+05-3.799e+05-7.017e+04-4.831e+05
		96	19.17	-16.78	-32.03	-17.04	-31.77	1.99-2.870e+05-4.150e+05-3.839e+05-3.182e+05 55.491e+04
		93	16.09	-11.41	-19.05	-17.37	-13.09	-3.16-1.847e+05-3.568e+05-3.524e+05-1.892e+05-2.733e+04
		94	53.23	24.80	-78.25	-15.42	-38.03	50.27 1.904e+05-9.117e+05-3.577e+05-3.637e+05 5.510e+05
51	4	97	41.84	26.76	-52.00	-14.01	-11.23	-39.36 2.111e+05-6.757e+05-3.670e+05-9.750e+04-4.224e+05
		96	18.57	-16.53	-29.11	-16.78	-28.86	1.76-2.864e+05-3.995e+05-3.712e+05-3.147e+05 4.894e+04
		93	15.74	-12.23	-18.49	-17.32	-13.40	-2.44-1.973e+05-3.482e+05-3.441e+05-2.013e+05-2.435e+04
		94	47.30	17.30	-67.03	-16.30	-33.43	41.29 1.327e+05-8.334e+05-3.477e+05-3.637e+05 5.510e+05
51	5	97	63.83	59.01	-83.00	-15.94	-8.06	-70.89 4.685e+05-9.195e+05-4.372e+05-1.374e+04-6.609e+05
		96	22.14	-18.45	-39.98	-18.78	-39.66	2.64-3.118e+05-4.842e+05-4.431e+05-3.529e+05 7.346e+04
		93	18.34	-10.58	-21.55	-18.83	-13.29	-4.73-1.715e+05-4.053e+05-3.995e+05-1.773e+05-3.641e+04
		94	71.30	41.21	-105.82	-15.15	-49.46	71.48 3.403e+05-1.164e+06-4.071e+05-4.168e+05 5.522e+05
52	3	98	20.22	35.63	-39.78	34.15	-38.31	10.44 9.233e+04-3.321e+05 1.851e+04-2.583e+05 1.609e+05
		97	56.37	102.97	-38.30	56.83	7.83	-66.25 7.753e+05-4.571e+05 2.470e+05 7.116e+04-6.099e+05
		94	47.78	61.48	-54.72	35.54	-28.78	48.39 4.877e+05-5.678e+05 1.823e+05-2.624e+05 4.786e+05
		31	22.62	47.61	-19.24	37.31	-8.95	-24.13 3.798e+05-9.101e+04 2.397e+05-4.908e+04-2.153e+05
52	4	98	18.51	27.60	-34.18	26.69	-33.28	7.42 5.113e+04-3.258e+05-1.231e+04-2.624e+05 1.410e+05
		97	49.11	80.10	-33.65	43.63	2.82	-53.09 6.444e+05-4.349e+05 1.831e+05 2.647e+04-5.339e+05
		94	42.03	46.70	-47.36	24.93	-25.59	39.67 3.934e+05-5.328e+05 1.252e+05-2.645e+05 4.201e+05
		31	19.41	32.31	-18.21	25.26	-11.17	-17.50 3.068e+05-1.063e+05 1.871e+05 1.345e+04-1.875e+05
52	5	98	26.34	54.48	-53.08	51.84	-50.44	16.65 1.957e+05-3.758e+05 9.164e+04-2.718e+05 2.205e+05
		97	77.74	154.59	-49.92	86.67	18.00	-96.32 1.140e+06-5.431e+05 4.175e+05 1.792e+05-8.329e+05
		94	65.13	94.54	-72.92	58.31	-36.69	68.95 7.458e+05-6.935e+05 3.302e+05-2.779e+05 6.523e+05
		31	32.15	79.53	-22.50	62.59	-5.56	-37.97 5.825e+05-5.960e+04 3.847e+05 1.382e+05-2.964e+05
53	3	99	15.01	-16.76	-17.96	-16.97	-17.74	-0.46-2.330e+05-3.225e+05-3.163e+05-2.391e+05 2.257e+04
		39	14.89	-16.35	-18.31	-16.45	-18.21	-0.43-2.613e+05-3.054e+05-3.025e+05-2.641e+05 1.083e+04
		42	14.82	-16.70	-17.47	-16.87	-17.29	-0.32-2.668e+05-2.994e+05-2.953e+05-2.709e+05 1.085e+04
		95	15.10	-16.86	-19.52	-17.06	-19.32	-0.70-2.515e+05-3.173e+05-3.045e+05-2.643e+05 2.605e+04
53	4	99	14.95	-16.72	-17.62	-16.95	-17.38	-0.40-2.401e+05-3.182e+05-3.127e+05-2.456e+05 1.990e+04
		39	14.92	-16.41	-17.92	-16.49	-17.84	-0.33-2.653e+05-3.037e+05-3.012e+05-2.678e+05 9576.41
		42	14.87	-16.69	-17.24	-16.83	-17.11	-0.24-2.702e+05-2.987e+05-2.950e+05-2.739e+05 9503.32
		95	15.07	-16.76	-18.87	-16.91	-18.72	-0.55-2.565e+05-3.138e+05-3.025e+05-2.678e+05 2.277e+04
53	5	99	16.46	-18.09	-19.94	-18.34	-19.70	-0.62-2.366e+05-3.590e+05-3.508e+05-2.449e+05 1.076e+05
		39	16.12	-17.50	-20.42	-17.64	-20.27	-0.63-2.750e+05-3.354e+05-3.315e+05-2.789e+05 4.76e+04
		42	16.00	-18.00	-19.19	-18.26	-18.93	-0.49-2.824e+05-3.271e+05-3.215e+05-2.881e+05 1.483e+04
		95	16.48	-18.33	-22.16	-18.63	-21.87	-1.02-2.617e+05-3.518e+05-3.344e+05-2.791e+05 5.557e+04
54	3	100	15.37	-11.52	-20.22	-18.05	-13.69	-3.76-1.806e+05-3.408e+05-3.385e+05-1.830e+05 1.928e+04
		99	15.57	-15.96	-21.99	-16.02	-21.93	-0.58-2.501e+05-3.312e+05-3.183e+05-2.631e+05 2.969e+04
		95	14.79	-15.12	-17.94	-17.68	-15.38	-0.82-2.399e+05-3.137e+05-3.076e+05-2.460e+05 2.037e+04
		96	17.57	-15.91	-26.12	-16.28	-25.75	1.90-2.151e+05-3.888e+05-3.202e+05-2.838e+05 4.89e+04
54	4	100	15.10	-12.17	-19.77	-17.99	-13.95	-3.22-1.936e+05-3.334e+05-3.313e+05-1.957e+05 1.703e+04
		99	15.46	-16.11	-20.83	-16.16	-20.78	-0.49-2.551e+05-3.260e+05-3.144e+05-2.666e+05 2.617e+04
		95	14.79	-15.33	-17.63	-17.43	-15.53	-0.64-2.464e+05-3.106e+05-3.052e+05-2.518e+05 1.780e+04
		96	17.05	-15.80	-24.26	-16.07	-23.99	1.49-2.243e+05-3.757e+05-3.153e+05-2.847e+05 4.16e+04
54	5	100	17.39	-11.01	-22.69	-19.62	-14.08	-5.14-1.656e+05-3.847e+05-3.815e+05-1.688e+05 2.620e+04
		99	17.17	-16.92	-25.80	-17.00	-25.73	-0.81-2.601e+05-3.709e+05-3.534e+05-2.776e+05 4.044e+04
		95	16.09	-15.81	-19.87	-19.47	-16.20	-1.20-2.459e+05-3.470e+05-3.386e+05-2.543e+05 2.784e+04
		96	20.29	-17.21	-31.60	-17.80	-31.01	2.86-2.123e+05-4.498e+05-3.563e+05-3.057e+05 1.160e+05
55	3	101	37.35	47.69	-44.24	-18.05	21.50	-41.49 3.531e+05-4.700e+05-3.332e+05 2.163e+05-3.065e+05
		100	23.23	-11.84	-48.48	-11.97	-48.34	-2.23-3.140e+05-5.101e+05-3.613e+05-4.628e+05 3.90e+04
		96	17.58	5.78	-20.20	-20.19	5.77	-0.53-5.600e+04-3.619e+05-3.558e+05-6.210e+04 2.77e+04
		97	61.88	8.94	-91.65	-12.92	-69.79	41.48 4.688e+04-1.163e+06-4.034e+05-7.127e+05 5.848e+05
55	4	101	32.90	36.05	-39.83	-18.49	14.72	-34.11 2.756e+05-4.456e+05-3.256e+05 1.556e+05-2.686e+05
		100	22.08	-12.90	-42.13	-13.03	-41.99	-1.97-3.097e+05-4.828e+05-3.515e+05-4.410e+05 4.10e+04
		96	16.56	1.51	-19.28	-19.27	1.50	-0.50-8.508e+04-3.518e+05-3.466e+05-9.027e+04 3.685e+04
		97	55.09	4.56	-77.05	-12.78	-59.71	33.39 5805.01-1.054e+06-3.874e+05-6.610e+05 5.121e+05
55	5	101	50.82	73.80	-56.22	-18.78	36.36	-58.88 5.617e+05-5.619e+05-3.750e+05 3.747e+05-4.185e+05
		100	27.82	-10.75	-64.20	-10.92	-64.03	-2.97-3.488e+05-6.143e+05-4.124e+05-5.507e+05 1.133e+05
		96	21.69	14.45	-23.40	-23.39	14.44	-0.60 5291.76-4.136e+05-4.049e+05 -3.356.30 5.956e+04
		97	82.59	18.23	-126.38	-13.87	-94.29	60.09 1.460e+05-1.506e+06-4.699e+05-8.900e+05 7.987e+05
56	3	26	28.02	21.54	-75.74	20.23	-74.43	-11.21 7.824e+04-4.918e+05 7.151e+04-4.851e+05 6.154e+04
		101	61.05	139.69	-22.05	66.61	51.02	-80.49 1.004e+06-2.780e+05 3.299e+05 3.957e+05-6.399e+05
		97	42.98	15.79	-76.67	9.61	-70.49	23.10 1.060e+05-7.654e+05-4.586e+04-6.135e+05 3.06e+05
		98	16.25	66.81	-5.95	37.80	23.06	-35.63 2.648e+05-7.505e+04 8.265e+04 1.071e+05-1.695e+05
56	4	26	25.37	12.91	-64.89	11.56	-63.53	-10.17 4.486e+04-4.611e+05 3.937e+04-4.556e+05 5.241e+04

		101	52.98	110.23	-21.60	50.05	38.58	-65.66	8.459e+05-2.781e+05	2.553e+05	3.126e+05-5.613e+05			
		97	38.48	10.25	-65.06	5.50	-60.32	18.30	5.892e+04-7.064e+05-7.351e+04-5.740e+05	2.895e+05				
		98	13.71	51.86	-6.13	29.10	16.64	-28.32	1.991e+05-9.672e+04-4.461e+04-5.772e+04-1.477e+05					
56	5	26	36.54	39.15	-101.81	37.74	-100.40	-14.04	1.659e+05-5.996e+05	1.558e+05-5.895e+05	8.727e+04			
		101	84.70	206.78	-24.81	103.22	78.75	-115.15	1.449e+06-2.987e+05	5.304e+05	6.203e+05-8.729e+05			
		97	57.03	27.90	-104.51	18.50	-95.12	34.00	2.248e+05-9.623e+05	1.727e+04-7.547e+05	4.509e+05			
		98	23.92	101.07	-5.61	57.85	37.61	-52.37	4.381e+05-3.242e+04	1.779e+05	2.279e+05-2.339e+05			
57	3	99	15.20	-16.98	-19.55	-18.42	-18.11		1.28-2.373e+05-3.260e+05-3.105e+05-2.528e+05-3.370e+04					
		102	14.74	-15.02	-17.20	-15.09	-17.12		0.41-2.362e+05-3.138e+05-2.774e+05-2.726e+05-3.874e+04					
		40	14.88	-16.43	-18.04	-17.56	-16.91		0.74-2.675e+05-3.009e+05-2.890e+05-2.794e+05-1.600e+04					
		39	14.74	-15.98	-17.66	-16.04	-17.60		0.31-2.567e+05-3.034e+05-2.905e+05-2.696e+05-2.090e+04					
57	4	99	15.12	-16.97	-18.84	-18.04	-17.77		0.92-2.438e+05-3.213e+05-3.079e+05-2.477e+05-2.925e+04					
		102	14.74	-15.37	-17.01	-15.41	-16.97		0.26-2.431e+05-3.108e+05-2.793e+05-2.746e+05-3.380e+04					
		40	14.92	-16.50	-17.74	-17.39	-16.86		0.56-2.708e+05-3.001e+05-2.898e+05-2.811e+05-1.396e+04					
		39	14.78	-16.10	-17.40	-16.14	-17.37		0.21-2.613e+05-3.020e+05-2.908e+05-2.725e+05-1.815e+04					
57	5	99	16.71	-18.33	-22.32	-20.54	-20.11		1.98-2.425e+05-3.638e+05-3.425e+05-2.638e+05-4.620e+04					
		102	16.03	-15.53	-18.83	-15.66	-18.69		0.66-2.408e+05-3.470e+05-2.971e+05-2.907e+05-5.304e+04					
		40	16.08	-17.58	-19.97	-19.24	-18.32		1.10-2.834e+05-3.292e+05-3.129e+05-2.997e+05-2.190e+04					
		39	15.92	-16.98	-19.46	-17.07	-19.36		0.48-2.687e+05-3.327e+05-3.149e+05-2.865e+05-2.865e+04					
58	3	100	18.43	-17.37	-27.57	-27.57	-17.37		0.25-1.931e+05-4.083e+05-3.453e+05-2.518e+05-8.182e+04					
		103	14.60	-6.45	-17.18	-6.74	-16.90		1.72-1.579e+05-3.239e+05-1.918e+05-2.900e+05-6.696e+04					
		102	15.74	-16.15	-23.68	-23.38	-16.45		1.48-2.584e+05-3.322e+05-3.012e+05-2.895e+05-3.644e+04					
		99	14.31	-11.77	-18.44	-11.80	-18.42		0.39-2.186e+05-3.087e+05-2.562e+05-2.711e+05-4.442e+04					
58	4	100	17.72	-17.33	-25.32	-25.32	-17.33		-0.08-2.044e+05-3.928e+05-3.453e+05-2.518e+05-8.182e+04					
		103	14.39	-8.51	-16.85	-8.70	-16.67		1.23-1.742e+05-3.189e+05-2.042e+05-2.889e+05-5.865e+04					
		102	15.63	-16.26	-22.30	-22.08	-16.48		1.12-2.624e+05-3.271e+05-3.001e+05-2.893e+05-3.189e+04					
		99	14.33	-12.61	-18.06	-12.62	-18.05		0.23-2.276e+05-3.060e+05-2.605e+05-2.732e+05-3.869e+04					
58	5	100	21.69	-18.76	-33.93	-33.89	-18.80		0.80-1.828e+05-4.768e+05-4.020e+05-2.576e+05-1.280e+05					
		103	16.45	-3.04	-19.06	-3.49	-18.60		2.67-1.339e+05-3.613e+05-1.801e+05-3.150e+05-9.150e+04					
		102	17.36	-17.19	-28.10	-27.63	-17.66		2.22-2.712e+05-3.721e+05-3.295e+05-3.138e+05-4.983e+04					
		99	15.53	-11.02	-20.57	-11.07	-20.52		0.68-2.169e+05-3.403e+05-2.683e+05-2.889e+05-6.084e+04					
59	3	101	61.17	-6.34	-101.60	-95.23	-12.72		-23.81-5.641e+04-1.200e+06-9.958e+05-2.610e+05-4.384e+05					
		104	38.69	65.25	-22.79	59.23	-16.77		22.23	5.441e+05-3.003e+05	5.416e+05-2.979e+05	4.553e+04		
		103	27.75	-9.65	-63.94	-63.76	-9.83		3.09-2.762e+05-6.130e+05-5.898e+05-2.993e+05-8.521e+04					
		100	20.55	24.02	-25.57	23.95	-25.50		-1.89	1.002e+05-3.340e+05	7.265e+04-3.065e+05	1.058e+05		
59	4	101	54.57	-8.42	-85.73	-80.15	-14.00		-20.01-8.312e+04-1.086e+06-9.068e+05-2.624e+05-3.842e+05					
		104	33.52	49.45	-20.96	44.63	-16.14		17.79	4.404e+05-2.971e+05	4.382e+05-2.950e+05	3.963e+04		
		103	25.91	-10.89	-55.00	-54.88	-11.01		2.28-2.766e+05-5.734e+05-5.530e+05-2.970e+05-7.519e+04					
		100	18.59	16.62	-24.04	16.54	-23.97		-1.75	5.223e+04-3.274e+05	2.835e+04-3.035e+05	9.216e+04		
59	5	101	81.39	-2.85	-139.86	-131.32	-11.39		-33.12	2872.05-1.559e+06-1.280e+06-2.765e+05-5.986e+05				
		104	53.80	100.43	-27.89	91.71	-19.17		32.29	8.257e+05-3.290e+05	8.224e+05-3.256e+05	6.232e+04		
		103	34.39	-8.04	-85.89	-85.60	-8.33		4.76-2.967e+05-7.547e+05-7.235e+05-3.278e+05-1.153e+05					
		100	27.16	40.17	-30.51	40.09	-30.43		-2.38	2.183e+05-3.755e+05	1.801e+05-3.373e+05	1.457e+05		
60	3	26	29.90	84.50	-9.20	50.89	24.42		44.94	5.780e+05	1.437e+04	4.179e+05	1.745e+05	2.542e+05
		105	30.86	6.80	-95.71	-88.94	0.03		25.47	2.068e+05-6.656e+05-6.625e+05-2.099e+05-3.706e+04				
		104	58.04	139.82	-9.68	74.14	56.01		74.20	1.000e+06-1.946e+05	5.828e+05	2.227e+05	5.695e+05	
		101	45.92	-18.04	-104.87	-103.42	-19.49		11.12-1.752e+05-9.539e+05-9.522e+05-1.769e+05-3.624e+04					
60	4	26	25.30	61.67	-10.01	36.09	15.57		34.34	4.779e+05-1.161e+04	3.367e+05	1.295e+05	2.217e+05	
		105	28.52	4.44	-80.48	-74.45	-1.59		21.81-2.098e+05-6.195e+05-6.170e+05-2.123e+05-3.191e+04					
		104	50.16	109.49	-10.42	56.26	42.81		59.58	8.412e+05-2.048e+05	4.745e+05	1.619e+05	4.991e+05	
		101	41.42	-18.68	-87.17	-86.13	-19.72		8.39-1.874e+05-8.707e+05-8.691e+05-1.889e+05-3.213e+04					
60	5	26	43.09	133.11	-8.10	81.93	43.08		67.88	8.594e+05	7.909e+04	6.422e+05	2.963e+05	3.497e+05
		105	38.92	12.50	-132.14	-123.15	3.51		34.92-2.157e+05-8.274e+05-8.228e+05-2.203e+05-5.279e+04					
		104	80.89	208.23	-8.88	113.74	85.61		107.64	1.446e+06-1.841e+05	8.783e+05	3.840e+05	5.769e+05	
		101	60.09	-18.50	-146.28	-143.98	-20.80		16.99-1.592e+05-1.222e+06-1.219e+06-1.615e+05-4.880e+04					
61	3	102	15.18	-16.83	-18.89	-18.24	-17.48		0.96-2.450e+05-3.224e+05-3.013e+05-2.661e+05-3.443e+04					
		106	14.73	-14.34	-16.35	-14.40	-16.29		0.36-2.337e+05-3.146e+05-2.665e+05-2.818e+05-3.968e+04					
		49	14.86	-16.08	-17.62	-17.45	-16.25		0.47-2.694e+05-2.990e+05-2.850e+05-2.834e+05-1.479e+04					
		40	14.65	-15.41	-17.01	-15.47	-16.95		0.30-2.632e+05-2.965e+05-2.849e+05-2.748e+05-1.586e+04					
61	4	102	15.13	-16.81	-18.42	-17.97	-17.26		0.72-2.508e+05-3.184e+05-3.002e+05-2.690e+05-2.995e+04					
		106	14.73	-14.81	-16.44	-14.85	-16.40		0.26-2.409e+05-3.117e+05-2.698e+05-2.828e+05-3.478e+04					
		49	14.91	-16.24	-17.44	-17.33	-16.35		0.35-2.725e+05-2.985e+05-2.863e+05-2.847e+05-1.297e+04					
		40	14.72	-15.67	-16.92	-15.70	-16.88		0.21-2.671e+05-2.962e+05-2.861e+05-2.772e+05-1.381e+04					
61	5	102	16.62	-18.20	-21.21	-20.19	-19.22		1.42-2.529e+05-3.587e+05-3.298e+05-2.818e+05-4.718e+04					
		106	16.03	-14.59	-17.46	-14.69	-17.36		0.54-2.375e+05-3.479e+05-2.823e+05-3.031e+05-5.419e+04					
		49	16.05	-17.07	-19.32	-19.06	-17.32		0.71-2.861e+05-3.265e+05-3.073e+05-3.052e+05-2.019e+04					
		40	15.77	-16.13	-18.47	-16.23	-18.37		0.46-2.776e+05-3.231e+05-3.072e+05-2.935e+05-2.171e+04					
62	3	103	18.42	-17.74	-28.22	-28.06	-17.90		1.28-2.185e+05-4.080e+05-3.607e+05-2.658e+05-8.201e+04					
		107	15.36	-4.02	-16.62	-4.04	-16.61		0.43-1.331e+05-3.384e+05-1.833e+05-2.883e+05-8.820e+04					
		106	15.95	-16.09	-23.60	-23.54	-16.15		0.66-2.589e+05-3.380e+05-3.067e+05-2.902e+05-3.867e+04					
		102	13.94	-9.59	-17.44	-9.62	-17.40		0.52-2.208e+05-2.981e+05-3.075e+05-2.935e+05-3.782e+04					
62	4	103	17.79	-17.33	-26.12	-26.00	-17.45		1.02-2.271e+05-3.928e+05-3.520e+05-2.679e+05-7.137e+04					
		107	14.97	-6.37	-16.75	-6.38	-16.74		0.39-1.522e+05-3.319e+05-1.962e+05-2.879e+05-7.731e+04					
		106	15.81	-16.24	-22.29	-22.25	-16.28		0.50-2.628e+05-3.323e+05-3.050e+05-2.902e+05-3.395e+04					
		102	14.04	-10.96	-17.24	-10.98	-17.22		0.36-2.297e+05-2.969e+05-2.566e+05-2.700e+05-3.294e+04					
62	5	103	21.50	-19.82	-34.42	-34.19	-20.05		1.82-2.167e+05-4.761e+05-4.109e+05-2.818e+05-1.125e+05					
		107	17.77	0.12	-17.67	0.10	-17.66		0.52-1.005e+05-3.807e+05-1.691e+05-3.121e+05-1.205e+05					

		106	17.66	-17.09	-27.93	-27.83	-17.18	1.00-2.719e+05-3.798e+05-3.371e+05-3.146e+05-5.277e+04
		102	14.97	-7.73	-19.13	-7.79	-19.07	0.81-2.197e+05-3.256e+05-2.618e+05-2.835e+05-5.183e+04
63	3	104	58.44	-17.93	-103.66	-102.44	-19.14	-10.13-2.300e+05-1.218e+06-1.107e+06-3.411e+05-3.121e+05
		108	39.71	68.16	-14.98	67.45	-14.27	7.65 6.026e+05-2.529e+05 5.764e+05-2.267e+05-1.474e+05
		107	30.99	-13.25	-67.55	-67.55	-13.25	0.39-2.767e+05-6.818e+05-6.486e+05-3.100e+05-1.112e+05
		103	19.94	34.29	-21.81	34.27	-21.78	1.09 1.434e+05-2.895e+05 1.230e+05-2.691e+05-9.174e+04
63	4	104	52.41	-17.11	-87.23	-86.28	-18.06	-8.08-2.367e+05-1.103e+06-1.006e+06-3.332e+05-2.725e+05
		108	34.42	52.34	-15.77	51.72	-15.16	6.43 4.938e+05-2.560e+05 4.709e+05-2.331e+05-1.291e+05
		107	28.68	-13.98	-57.85	-57.85	-13.99	0.36-2.777e+05-6.334e+05-6.041e+05-3.070e+05-9.785e+04
		103	17.85	24.48	-20.62	24.46	-20.60	0.85 8.958e+04-2.883e+05 7.202e+04-2.707e+05-7.954e+04
63	5	104	77.16	-20.68	-143.02	-141.19	-22.51	-14.86-2.314e+05-1.581e+06-1.429e+06-3.840e+05-4.274e+05
		108	55.28	103.68	-14.64	102.74	-13.70	10.53 9.025e+05-2.641e+05 8.666e+05-2.283e+05-2.013e+05
		107	38.96	-12.88	-91.35	-91.34	-12.89	0.47-2.967e+05-8.491e+05-8.043e+05-3.415e+05-1.508e+05
		103	26.83	55.63	-25.65	55.60	-25.62	1.54 2.778e+05-3.147e+05 2.493e+05-2.862e+05-1.268e+05
64	3	105	16.03	84.36	-8.73	61.82	13.81	39.88 2.824e+05-3.936e+04 2.482e+05 -5143.78 9.919e+04
		17	40.73	-6.16	-123.74	-103.56	-26.33	44.33-2.315e+05-8.678e+05-8.341e+05-2.651e+05-1.425e+05
		108	47.71	127.01	-6.48	86.45	34.08	61.39 8.364e+05-1.358e+05 6.390e+05 6.161e+04 3.911e+05
		104	54.47	-25.46	-137.75	-118.33	-44.88	42.47-3.691e+05-1.177e+06-1.113e+06-4.329e+05-2.179e+05
64	4	105	13.12	65.83	-9.11	47.57	9.15	32.17 2.115e+05-6.304e+04 1.811e+05-3.263e+04 8.616e+04
		17	36.93	-8.84	-103.28	-86.33	-25.80	36.24-2.595e+05-1.111e+06-1.067e+06-3.259e+05-1.898e+05
		108	41.17	99.74	-8.93	66.74	24.07	49.97 6.991e+05-1.539e+05 5.258e+05 1.932e+04 3.432e+05
		104	49.17	-23.10	-114.74	-98.96	-38.88	34.59-3.570e+05-1.068e+06-1.012e+06-4.132e+05-1.918e+05
64	5	105	24.32	126.74	-8.81	94.06	23.87	57.98 4.676e+05 1.216e+04 4.210e+05 5.873e+04 1.380e+05
		17	52.73	-1.96	-171.16	-143.46	-29.65	62.60-2.595e+05-1.111e+06-1.067e+06-3.259e+05-1.898e+05
		108	66.81	188.64	-2.39	130.39	55.87	87.95 1.222e+06-1.037e+05 9.524e+05 1.656e+05 5.333e+05
		104	71.24	-31.81	-191.95	-164.14	-59.61	60.66-4.232e+05-1.524e+06-1.437e+06-5.100e+05-2.967e+05
65	3	106	15.21	-16.38	-18.13	-18.08	-16.43	0.30-2.428e+05-3.241e+05-2.935e+05-2.734e+05-3.938e+04
		109	14.65	-13.83	-15.59	-14.44	-14.97	0.84-2.321e+05-3.132e+05-2.578e+05-2.875e+05-3.775e+04
		54	14.82	-15.59	-17.18	-17.11	-15.65	0.31-2.653e+05-3.006e+05-2.789e+05-2.871e+05-1.716e+04
		49	14.61	-14.97	-16.47	-15.15	-16.30	0.48-2.650e+05-2.940e+05-2.798e+05-2.791e+05-1.450e+04
65	4	106	15.16	-16.48	-17.86	-17.83	-16.51	0.20-2.488e+05-3.201e+05-2.934e+05-2.755e+05-3.448e+04
		109	14.67	-14.50	-15.80	-14.91	-15.39	0.61-2.393e+05-3.106e+05-2.621e+05-2.878e+05-3.325e+04
		54	14.87	-15.87	-17.12	-17.08	-15.91	0.22-2.689e+05-2.999e+05-2.809e+05-2.879e+05-1.510e+04
		49	14.69	-15.35	-16.51	-15.47	-16.38	0.36-2.687e+05-2.940e+05-2.818e+05-2.809e+05-1.268e+04
65	5	106	16.67	-17.47	-20.07	-19.97	-17.57	0.48-2.499e+05-3.609e+05-3.191e+05-2.917e+05-5.377e+04
		109	15.93	-13.71	-16.40	-14.69	-15.42	1.29-2.354e+05-3.460e+05-2.703e+05-3.111e+05-5.139e+04
		54	16.08	-16.32	-18.65	-18.55	-16.42	0.48-2.805e+05-3.286e+05-2.990e+05-3.102e+05-2.337e+04
		49	15.71	-15.47	-17.68	-15.74	-17.40	0.73-2.799e+05-3.196e+05-3.003e+05-2.993e+05-1.982e+04
66	3	107	18.76	-16.99	-27.79	-27.79	-16.99	-0.17-2.082e+05-4.158e+05-3.671e+05-2.569e+05-8.798e+04
		110	15.04	-5.17	-13.80	-5.21	-13.76	0.58-1.366e+05-3.323e+05-1.949e+05-2.740e+05-8.946e+04
		109	15.92	-15.13	-23.07	-23.05	-15.16	0.45-2.545e+05-3.391e+05-3.076e+05-2.960e+05-4.088e+04
		106	13.92	-8.93	-16.48	-8.99	-16.42	0.67-2.211e+05-2.973e+05-2.536e+05-2.648e+05-3.769e+04
66	4	107	18.06	-17.06	-25.64	-25.64	-17.06	-0.21-2.178e+05-3.999e+05-3.573e+05-2.604e+05-7.709e+04
		110	14.73	-7.46	-14.41	-7.47	-14.40	0.30-1.550e+05-3.268e+05-2.068e+05-2.751e+05-7.882e+04
		109	15.78	-15.53	-21.91	-21.89	-15.54	0.29-2.588e+05-3.333e+05-3.057e+05-2.864e+05-3.598e+04
		106	14.03	-10.43	-16.53	-10.47	-16.49	0.51-2.299e+05-2.965e+05-2.585e+05-2.679e+05-3.295e+04
66	5	107	22.04	-18.19	-34.08	-34.08	-18.19	-0.11-2.029e+05-4.865e+05-4.201e+05-2.693e+05-1.201e+05
		110	17.26	-1.21	-13.85	-1.30	-13.76	1.07-1.055e+05-3.720e+05-1.844e+05-2.931e+05-1.217e+05
		109	17.64	-15.63	-27.12	-27.08	-15.68	0.73-2.661e+05-3.812e+05-3.383e+05-3.090e+05-5.565e+04
		106	14.92	-6.79	-17.68	-6.88	-17.59	1.01-2.203e+05-3.244e+05-2.647e+05-2.800e+05-5.150e+04
67	3	108	53.39	-22.07	-98.65	-98.36	-22.35	4.63-2.774e+05-1.134e+06-1.107e+06-3.041e+05-1.489e+05
		111	45.41	69.92	-11.26	68.20	-9.54	-11.72 6.723e+05-3.117e+05 5.481e+05-1.876e+05-3.268e+05
		110	32.24	-9.99	-67.78	-67.78	-9.99	0.20-2.452e+05-7.028e+05-6.775e+05-2.706e+05-1.047e+05
		107	18.24	35.92	-20.13	35.92	-20.13	-0.03 1.276e+05-2.674e+05 9.749e+04-2.373e+05-1.048e+05
67	4	108	48.03	-21.52	-83.02	-82.83	-21.70	3.39-2.774e+05-1.028e+06-1.005e+06-3.008e+05-1.306e+05
		111	39.44	53.32	-12.23	51.85	-10.76	-9.70 5.539e+05-3.083e+05 4.443e+05-1.986e+05-2.873e+05
		110	29.73	-11.35	-58.20	-58.20	-11.35	-0.04-2.495e+05-6.522e+05-6.297e+05-2.720e+05-9.249e+04
		107	16.41	26.04	-19.60	26.04	-19.60	-0.06 7.603e+04-2.695e+05 4.983e+04-2.433e+05-9.146e+04
67	5	108	70.12	-24.87	-136.23	-135.75	-25.35	7.31-2.976e+05-1.468e+06-1.432e+06-3.340e+05-2.032e+05
		111	62.99	107.00	-10.51	104.63	-8.14	-16.51 9.992e+05-3.431e+05 8.304e+05-1.744e+05-4.450e+05
		110	40.82	-8.30	-91.36	-91.35	-8.30	0.59-2.543e+05-8.773e+05-8.434e+05-2.882e+05-1.415e+05
		107	24.44	57.57	-22.74	57.57	-22.74	0.04 2.559e+05-2.839e+05 2.142e+05-2.422e+05-1.440e+05
68	3	17	25.04	76.45	-27.30	64.82	-15.66	32.74 4.057e+05-1.201e+05 3.823e+05-9.670e+04 1.085e+05
		112	38.84	-9.80	-117.11	-90.79	-36.11	46.17-3.998e+05-8.570e+05-8.264e+05-4.304e+05-1.143e+05
		111	36.98	100.51	-1.70	82.41	16.40	39.02 6.200e+05-1.501e+05 5.589e+05-8.898e+04 2.081e+05
		108	63.68	-30.05	-156.41	-115.56	-70.90	59.10-4.037e+05-1.370e+06-1.177e+06-5.963e+05-3.860e+05
68	4	17	21.30	55.64	-24.99	47.13	-16.48	24.78 3.268e+05-1.282e+05 3.068e+05-1.081e+05-9.340e+04
		112	35.66	-9.52	-98.45	-76.39	-31.58	38.41-3.792e+05-7.880e+05-7.613e+05-4.059e+05-1.009e+05
		111	31.74	77.22	-4.19	62.75	10.28	31.13 5.075e+05-1.652e+05 4.541e+05-1.117e+05 1.820e+05
		108	57.10	-27.86	-129.24	-95.97	-61.14	47.60-3.888e+05-1.235e+06-1.067e+06-5.572e+05-3.378e+05
68	5	17	35.89	120.71	-33.52	102.32	-15.12	49.99 6.236e+05-1.076e+05 5.907e+05-7.465e+05-1.418e+05
		112	49.36	-10.92	-162.10	-125.34	-47.68	64.86-4.792e+05-1.087e+06-1.045e+06-5.209e+05-1.536e+05
		111	52.10	152.28	2.77	125.90	29.15	56.99 9.279e+05-1.239e+05 8.445e+05-4.056e+04 2.841e+05
		108	83.98	-36.52	-220.12	-161.54	-95.11	85.58-4.692e+05-1.789e+06-1.525e+06-7.329e+05-2.277e+05
69	3	109	15.12	-15.19	-17.73	-17.68	-15.24	0.36-2.406e+05-3.225e+05-2.803e+05-2.803e+05-4.094e+04
		113	14.71	-12.77	-15.91	-14.19	-14.49	1.56-2.245e+05-3.175e+05-2.439e+05-2.981e+05-3.785e+04
		59	14.76	-14.89	-16.61	-16.55	-14.94	0.29-2.549e+05-3.054e+05-2.706e+05-2.897e+05-2.340e+04



		54	14.58	-14.55	-16.16	-15.02	-15.69	0.74-2.612e+05-2.958e+05-2.750e+05-2.820e+05-1.698e+04
69	4	109	15.07	-15.55	-17.58	-17.56	-15.58	0.22-2.467e+05-3.187e+05-2.841e+05-2.814e+05-3.598e+04
		113	14.69	-13.67	-16.12	-14.77	-15.02	1.22-2.324e+05-3.142e+05-2.497e+05-2.969e+05-3.338e+04
		59	14.81	-15.34	-16.68	-16.65	-15.37	0.20-2.595e+05-3.040e+05-2.735e+05-2.900e+05-2.063e+04
		54	14.67	-15.03	-16.29	-15.39	-15.93	0.56-2.652e+05-2.957e+05-2.774e+05-2.835e+05-1.491e+04
69	5	109	16.55	-15.74	-19.42	-19.32	-15.84	0.61-2.470e+05-3.586e+05-3.044e+05-3.012e+05-5.579e+04
		113	26.08	-12.18	-16.76	-14.26	-14.68	2.28-2.251e+05-3.520e+05-2.515e+05-3.256e+05-5.152e+04
		59	15.96	-15.27	-17.81	-17.71	-15.36	0.47-2.664e+05-3.352e+05-2.878e+05-3.138e+05-3.184e+04
		54	15.68	-14.81	-17.20	-15.53	-16.47	1.10-2.748e+05-3.221e+05-2.936e+05-3.033e+05-2.314e+04
70	3	110	17.92	-14.03	-27.17	-26.88	-14.32	1.91-2.173e+05-3.966e+05-3.668e+05-2.472e+05-6.677e+04
		114	15.86	-4.35	-16.24	-4.60	-15.99	1.71-1.324e+05-3.489e+05-1.919e+05-2.894e+05-9.666e+04
		113	15.71	-14.14	-20.73	-20.69	-14.19	0.55-2.403e+05-3.387e+05-3.002e+05-2.788e+05-4.802e+04
		109	13.97	-9.01	-16.39	-9.34	-16.06	1.52-2.238e+05-2.978e+05-2.591e+05-2.624e+05-3.695e+04
70	4	110	17.38	-14.53	-25.32	-25.13	-14.72	1.43-2.256e+05-3.835e+05-3.576e+05-2.514e+05-5.843e+04
		114	15.39	-6.84	-16.44	-7.05	-16.23	1.40-1.512e+05-3.410e+05-2.036e+05-2.886e+05-8.485e+04
		113	15.57	-14.72	-20.09	-20.06	-14.75	0.40-2.462e+05-3.329e+05-2.991e+05-2.800e+05-4.227e+04
		109	14.07	-10.59	-16.46	-10.83	-16.22	1.16-2.321e+05-2.969e+05-2.633e+05-2.657e+05-3.237e+04
70	5	110	20.75	-14.27	-32.84	-32.38	-14.72	2.87-2.156e+05-4.598e+05-4.189e+05-2.565e+05-9.116e+04
		114	18.51	-0.12	-17.11	-0.45	-16.78	2.34-9.998e+04-3.954e+05-1.810e+05-3.144e+05-1.318e+05
		113	17.42	-14.20	-23.68	-23.60	-14.28	0.84-2.468e+05-3.808e+05-3.283e+05-2.993e+05-6.539e+04
		109	14.98	-6.79	-17.54	-7.29	-17.04	2.27-2.240e+05-3.250e+05-2.721e+05-2.769e+05-5.041e+04
71	3	111	53.06	-5.15	-99.87	-93.99	-11.02	22.85-2.226e+05-1.110e+06-1.107e+06-2.256e+05-5.080e+04
		115	51.57	67.64	-27.65	63.56	-23.56	-19.30-6.738e+05-4.619e+05-4.700e+05-2.582e+05-4.358e+05
		114	30.05	-8.05	-55.57	-55.56	-8.06	-0.80-2.024e+05-6.502e+05-6.189e+05-2.337e+05-1.142e+05
		110	15.02	30.30	-21.93	30.02	-21.65	3.79-5.283e+04-2.576e+05-3.259e+04-2.373e+05-7.663e+04
71	4	111	47.80	-7.11	-84.29	-79.59	-11.80	18.44-2.291e+05-1.009e+06-1.007e+06-2.317e+05-4.488e+04
		115	45.00	51.51	-25.76	48.28	-22.52	-15.47-5.563e+05-4.386e+05-3.778e+05-2.601e+05-3.817e+05
		114	27.74	-9.78	-48.36	-48.35	-9.79	-0.64-2.123e+05-6.054e+05-5.777e+05-2.399e+05-1.006e+05
		110	13.85	21.15	-20.86	20.94	-20.64	2.98-1.007e+04-2.603e+05-7434.18-2.428e+05-6.653e+04
71	5	111	69.66	-1.98	-137.35	-128.80	-10.53	32.93-2.227e+05-1.432e+06-1.428e+06-2.267e+05-5.923e+04
		115	70.99	103.66	-33.40	97.54	-27.27	-28.31-9.997e+05-5.508e+05-7.213e+05-2.725e+05-5.951e+05
		114	37.98	-5.35	-73.86	-73.84	-5.37	-1.23-1.957e+05-8.060e+05-7.639e+05-2.378e+05-1.547e+05
		110	19.51	50.00	-25.68	49.60	-25.28	5.49-1.543e+05-2.712e+05-1.261e+05-2.431e+05-1.058e+05
72	3	112	16.01	64.43	-26.56	60.12	-22.25	19.33-1.082e+05-2.365e+05-1.022e+05-2.305e+05-4.504e+04
		14	47.21	-19.83	-134.78	-88.92	-65.69	56.29-3.792e+05-1.031e+06-8.763e+05-5.336e+05-2.770e+05
		115	34.71	75.48	-20.06	73.17	-17.74	14.70-4.182e+05-3.478e+05-4.173e+05-3.470e+05-2.531e+04
		111	73.68	-18.52	-174.74	-109.65	-83.61	17.02-3.353e+05-1.548e+06-1.146e+06-7.372e+05-5.707e+05
72	4	112	14.15	48.97	-24.24	45.44	-20.71	15.69-5.864e+04-2.362e+05-5.290e+04-2.305e+05-4.075e+04
		14	42.66	-19.30	-112.17	-74.33	-57.14	45.63-3.555e+05-9.339e+05-7.984e+05-4.910e+05-2.450e+05
		115	30.34	57.53	-19.65	55.62	-17.74	11.99-3.319e+05-3.390e+05-3.312e+05-3.383e+05-2.151e+04
		111	65.82	-17.91	-144.58	-91.91	-70.57	62.43-3.281e+05-1.392e+06-1.041e+06-6.797e+05-5.004e+05
72	5	112	22.06	98.74	-33.73	92.36	-27.35	28.35-2.295e+05-2.552e+05-2.224e+05-2.482e+05-5.811e+04
		14	61.45	-22.69	-186.65	-122.36	-86.99	80.05-4.603e+05-1.335e+06-1.124e+06-6.710e+05-5.740e+05
		115	47.86	114.91	-22.12	111.67	-18.88	20.81-6.520e+05-3.946e+05-6.508e+05-3.934e+05-3.564e+04
		111	97.85	-21.27	-245.47	-151.64	-115.10	110.60-3.759e+05-2.032e+06-1.481e+06-9.261e+05-7.799e+05
73	3	59	14.57	-14.25	-16.22	-16.11	-14.36	-0.45-2.533e+05-3.005e+05-2.553e+05-2.984e+05-9614.28
		113	14.93	-14.57	-15.94	-15.87	-14.64	-0.31-2.273e+05-3.224e+05-2.321e+05-3.176e+05-2.077e+04
		116	14.51	-13.21	-15.53	-15.36	-13.38	-0.60-2.354e+05-3.080e+05-2.473e+05-2.960e+05-2.696e+04
		60	14.64	-15.09	-15.92	-15.73	-15.28	-0.35-2.619e+05-2.971e+05-2.657e+05-2.933e+05-1.097e+04
73	4	59	14.64	-14.84	-16.35	-16.26	-14.93	-0.36-2.581e+05-2.996e+05-2.599e+05-2.979e+05-8343.53
		113	14.89	-15.12	-16.15	-16.09	-15.19	-0.24-2.349e+05-3.185e+05-2.390e+05-3.144e+05-1.809e+04
		116	14.56	-14.05	-15.83	-15.70	-14.17	-0.45-2.421e+05-3.061e+05-2.525e+05-2.956e+05-2.368e+04
		60	14.71	-15.50	-16.13	-15.97	-15.65	-0.27-2.658e+05-2.968e+05-2.692e+05-2.935e+05-9616.03
73	5	59	15.69	-14.33	-17.27	-17.11	-14.49	-0.67-2.642e+05-3.285e+05-2.670e+05-2.305e+05-1.317e+04
		113	16.37	-14.76	-16.82	-16.71	-14.87	-0.47-2.291e+05-3.586e+05-2.357e+05-3.521e+05-2.840e+04
		116	15.70	-12.76	-16.25	-15.98	-13.03	-0.93-2.399e+05-3.388e+05-2.563e+05-3.224e+05-3.681e+04
		60	15.76	-15.55	-16.82	-16.54	-15.83	-0.53-2.758e+05-3.238e+05-2.811e+05-3.186e+05-1.498e+04
74	3	113	14.17	-10.43	-16.70	-16.65	-10.47	-0.51-2.203e+05-3.045e+05-2.670e+05-2.943e+05-2.744e+04
		114	16.46	-14.04	-19.84	-15.92	-17.96	-2.72-1.965e+05-3.648e+05-1.983e+05-3.630e+05-1.743e+04
		117	15.26	-6.87	-15.95	-15.17	-7.65	2.55-1.511e+05-3.381e+05-2.162e+05-2.730e+05-5.809e+04
		116	14.98	-14.68	-17.50	-14.90	-17.28	-0.76-2.380e+05-3.197e+05-2.439e+05-3.138e+05-2.124e+04
74	4	113	14.23	-11.77	-16.76	-16.72	-11.81	-0.42-2.288e+05-3.027e+05-2.376e+05-2.940e+05-2.391e+04
		114	16.08	-14.71	-19.37	-16.21	-17.87	-2.17-2.071e+05-3.551e+05-2.087e+05-3.535e+05-1.519e+04
		117	14.97	-8.91	-16.26	-15.57	-9.60	2.15-1.674e+05-3.322e+05-2.243e+05-2.753e+05-7.833e+04
		116	14.95	-15.18	-17.48	-15.34	-17.32	-0.58-2.443e+05-3.164e+05-2.495e+05-3.112e+05-1.866e+04
74	5	113	15.30	-8.80	-17.92	-17.86	-8.87	-0.75-2.195e+05-3.342e+05-2.335e+05-3.202e+05-3.754e+04
		114	18.82	-13.84	-22.49	-16.63	-19.70	-4.04-1.875e+05-4.171e+05-1.900e+05-4.149e+05-3.289e+04
		117	17.44	-3.61	-16.79	-15.76	-4.64	3.54-1.253e+05-3.800e+05-2.144e+05-2.910e+05-1.214e+05
		116	16.36	-14.95	-19.01	-15.31	-18.65	-1.15-2.435e+05-3.548e+05-2.516e+05-3.467e+05-2.899e+04
75	3	114	10.54	17.07	-21.85	-21.80	17.02	-1.41-4.136e+04-2.198e+05-1.778e+05-8.339e+04-7.573e+04
		115	44.40	5.21	-77.02	-19.25	-52.56	-37.59-5.320e+04-8.765e+05-1.899e+05-7.149e+05-3.064e+05
		118	55.15	59.82	-39.71	-15.12	35.23	42.92-6.283e+05-5.931e+05-1.166e+05-1.518e+05-5.958e+05
		117	23.04	-11.50	-39.40	-11.50	-39.40	0.35-1.719e+05-5.021e+05-1.806e+05-4.934e+05-5.277e+04
75	4	114	10.48	10.54	-21.01	-20.97	10.50	-1.15-7.195e+04-2.273e+05-1.909e+05-1.084e+05-5.586e+04
		115	39.89	0.56	-65.59	-45.98	-45.98	-30.21-8.070e+04-8.021e+05-2.005e+05-6.823e+05-2.685e+05
		118	48.35	45.05	-35.52	-15.45	24.97	34.85-5.160e+05-5.552e+05-1.359e+05-9.668e+04-5.228e+05
		117	21.67	-12.61	-35.34	-12.61	-35.33	0.40-1.853e+05-4.762e+05-1.931e+05-4.684e+05-4.689e+04

75	5	114	12.20	30.67	-25.18	-25.10	30.59	-2.11	2.551e+04	-2.201e+05	-1.617e+05	-3.285e+04	1.045e+05
		115	58.48	14.61	-105.10	-21.01	-69.49	-54.72	7494.65	-1.117e+06	-1.788e+05	-9.304e+05	-4.180e+05
		118	75.46	92.40	-51.08	-16.06	57.38	61.63	9.390e+05	-7.275e+05	-7.846e+04	2.899e+05	8.126e+05
		117	28.32	-10.45	-50.32	-10.46	-50.32	0.32	-1.542e+05	-6.035e+05	-1.657e+05	-5.920e+05	7.087e+04
76	3	115	73.66	-13.75	-170.45	-104.54	-79.66	-77.35	-2.542e+05	-1.520e+06	-8.573e+05	-9.167e+05	-6.322e+05
		14	24.55	33.50	-62.05	-62.05	33.50	0.14	1.962e+04	-4.585e+05	-4.456e+05	6673.05	7.762e+04
		119	34.32	-13.51	-97.12	-60.24	-50.40	-41.52	-3.907e+05	-7.582e+05	-5.075e+05	-6.414e+05	-1.711e+05
		118	39.73	42.73	-46.04	-37.20	33.89	26.58	2.137e+05	-6.318e+05	-4.645e+05	4.637e+04	3.368e+05
76	4	115	65.64	-14.40	-141.20	-88.25	-67.35	-62.53	-2.574e+05	-1.366e+06	-7.857e+05	-8.375e+05	-5.536e+05
		14	22.03	22.11	-53.62	-53.60	22.10	1.14	-1.281e+04	-4.271e+05	-4.152e+05	-2.475e+05	4.932e+04
		119	31.59	-13.35	-82.32	-51.74	-43.93	-34.27	-3.718e+05	-6.978e+05	-4.722e+05	-5.974e+05	-1.505e+05
		118	35.29	30.92	-40.69	-33.25	23.48	21.84	1.517e+05	-5.878e+05	-4.403e+05	4143.61	2.955e+05
76	5	115	98.08	-13.34	-239.57	-143.64	-109.26	-111.80	-2.662e+05	-1.995e+06	-1.090e+06	-1.172e+06	-8.637e+05
		14	32.52	56.89	-82.41	-82.39	56.87	-1.89	9.925e+04	-5.647e+05	-5.482e+05	8.275e+04	1.033e+05
		119	43.42	-15.32	-133.35	-81.78	-66.89	-58.55	-4.657e+05	-9.587e+05	-6.282e+05	-7.962e+05	-2.318e+05
		118	53.35	68.21	-60.19	-47.97	56.00	37.67	3.743e+05	-7.822e+05	-5.544e+05	1.465e+05	4.599e+05
77	2	60	15.93	-17.16	-17.59	-17.59	-17.16	0.02	-3.017e+05	-3.099e+05	-3.018e+05	-3.099e+05	-696.10
		116	15.71	-17.08	-17.41	-17.39	-17.10	-0.08	-2.915e+05	-3.109e+05	-2.916e+05	-3.107e+05	-1734.28
		64	15.72	-16.80	-17.56	-17.54	-16.82	-0.12	-2.940e+05	-3.093e+05	-2.946e+05	-3.086e+05	3086.30
		61	15.96	-17.26	-17.52	-17.52	-17.27	-0.03	-3.026e+05	-3.102e+05	-3.029e+05	-3.099e+05	1479.95
77	3	60	14.59	-14.55	-15.98	-15.98	-14.55	0.02	-2.618e+05	-2.955e+05	-2.618e+05	-2.955e+05	-1046.09
		116	14.66	-14.12	-15.55	-15.51	-14.16	-0.24	-2.373e+05	-3.114e+05	-2.373e+05	-3.113e+05	-2281.93
		64	14.49	-13.33	-15.70	-15.65	-13.37	-0.33	-2.436e+05	-3.035e+05	-2.460e+05	-3.011e+05	1.178e+04
		61	14.62	-14.91	-15.85	-15.81	-14.95	-0.18	-2.642e+05	-2.948e+05	-2.651e+05	-2.939e+05	5278.31
77	4	60	14.67	-15.07	-16.17	-16.17	-15.07	0.01	-2.658e+05	-2.954e+05	-2.658e+05	-2.954e+05	-971.28
		116	14.69	-14.78	-15.84	-15.81	-14.82	-0.19	-2.437e+05	-3.091e+05	-2.438e+05	-3.090e+05	-2154.33
		64	14.55	-14.15	-15.96	-15.93	-14.18	-0.25	-2.494e+05	-3.022e+05	-2.515e+05	-3.000e+05	1.038e+04
		61	14.70	-15.36	-16.06	-16.04	-15.39	-0.13	-2.679e+05	-2.949e+05	-2.688e+05	-2.941e+05	4665.19
78	3	116	14.28	-12.20	-15.77	-15.74	-12.23	0.35	-2.346e+05	-3.017e+05	-2.352e+05	-3.011e+05	6038.70
		117	15.97	-10.91	-18.96	-14.21	-15.66	-3.96	-1.867e+05	-3.541e+05	-1.941e+05	-3.468e+05	-3.418e+04
		66	14.67	-9.24	-17.08	-16.56	-9.75	1.95	-1.996e+05	-3.225e+05	-2.231e+05	-2.989e+05	4.835e+04
		64	14.57	-14.06	-15.86	-15.43	-14.50	-0.77	-2.426e+05	-3.063e+05	-2.430e+05	-3.059e+05	4880.64
78	4	116	14.35	-13.22	-16.03	-16.00	-13.25	0.29	-2.414e+05	-3.005e+05	-2.419e+05	-3.001e+05	5131.86
		117	15.67	-12.17	-18.71	-14.75	-16.13	-3.20	-1.984e+05	-3.464e+05	-2.049e+05	-3.399e+05	-3.041e+04
		66	14.58	-10.87	-17.13	-16.69	-11.30	1.59	-2.103e+05	-3.181e+05	-2.309e+05	-2.975e+05	4.238e+04
		64	14.62	-14.74	-16.10	-15.74	-15.10	-0.60	-2.485e+05	-3.047e+05	-2.489e+05	-3.043e+05	4360.90
78	5	116	15.37	-11.32	-16.58	-16.53	-11.37	0.50	-2.388e+05	-3.303e+05	-2.396e+05	-3.295e+05	8418.27
		117	18.15	-9.55	-21.00	-14.41	-16.14	-5.66	-1.742e+05	-4.016e+05	-1.840e+05	-3.918e+05	-4.612e+04
		66	16.19	-7.03	-18.37	-17.61	-7.79	2.84	-1.909e+05	-3.592e+05	-2.230e+05	-3.271e+05	5.614e+04
		64	15.75	-14.00	-16.71	-16.09	-14.63	-1.14	-2.496e+05	-3.366e+05	-2.502e+05	-3.361e+05	6623.65
79	3	117	11.42	-1.64	-14.85	-14.75	-1.75	1.18	-1.363e+05	-2.535e+05	-1.539e+05	-2.359e+05	1.188e+04
		118	50.55	31.51	-70.12	-13.91	-24.70	-50.53	2.136e+05	-8.443e+05	-1.433e+05	-4.874e+05	-5.002e+05
		68	50.37	42.12	-56.05	-21.31	7.38	46.94	3.792e+05	-7.188e+05	-1.756e+05	-1.639e+05	5.490e+05
		66	16.36	-13.42	-21.09	-15.95	-18.57	-3.61	-1.916e+05	-3.627e+05	-1.944e+05	-3.599e+05	-2.158e+04
79	4	117	11.67	-4.77	-15.28	-15.19	-4.86	0.95	-1.551e+05	-2.573e+05	-1.698e+05	-2.426e+05	5.587e+04
		118	45.03	22.20	-60.21	-14.42	-23.59	-40.95	1.536e+05	-7.764e+05	-1.596e+05	-4.632e+05	-4.395e+05
		68	44.47	30.64	-48.70	-20.65	2.60	37.93	2.977e+05	-6.643e+05	-1.887e+05	-1.779e+05	4.810e+05
		66	15.99	-14.21	-20.42	-16.19	-18.44	-2.89	-2.035e+05	-3.533e+05	-2.059e+05	-3.510e+05	-1.854e+04
79	5	117	12.04	4.07	-15.33	-15.16	3.91	1.78	-1.039e+05	-2.658e+05	-1.291e+05	-2.405e+05	5.873e+04
		118	67.61	51.36	-94.60	-14.31	-28.92	-72.61	3.715e+05	-1.069e+06	-1.146e+05	-5.832e+05	-6.813e+05
		68	68.19	67.30	-74.60	-24.08	16.78	67.95	5.985e+05	-9.006e+05	-1.580e+05	-1.441e+05	7.495e+05
		66	18.73	-13.10	-24.15	-16.75	-20.50	-5.20	-1.796e+05	-4.144e+05	-1.836e+05	-4.104e+05	-3.029e+04
80	3	118	67.18	8.65	-137.42	-85.14	-43.63	-70.02	-6.695e+04	-1.319e+06	-7.614e+05	-6.241e+05	-6.221e+05
		119	25.22	12.48	-58.71	-54.82	8.58	16.18	-1.982e+05	-5.507e+05	-4.455e+05	-3.834e+05	-6.134e+05
		13	36.46	-9.95	-99.36	-80.89	-28.43	-36.20	-3.157e+05	-7.996e+05	-6.099e+05	-5.054e+05	-2.363e+05
		68	53.69	22.16	-94.90	-72.48	-0.26	46.06	2.450e+04	-1.016e+06	-7.202e+05	-2.714e+05	4.694e+05
80	4	118	59.90	3.81	-114.75	-72.09	-38.86	-56.90	-9.275e+04	-1.191e+06	-7.008e+05	-5.830e+05	-5.460e+05
		119	23.32	6.77	-50.68	-47.44	3.53	13.26	-2.068e+05	-5.129e+05	-4.181e+05	-3.016e+05	5.1416e+05
		13	33.14	-11.33	-84.30	-69.08	-26.55	-29.65	-3.029e+05	-7.290e+05	-5.590e+05	-4.729e+05	-2.087e+05
		68	47.90	14.60	-80.26	-62.10	-3.57	37.33	-1.376e+04	-9.249e+05	-6.663e+05	-2.724e+05	4.108e+05
80	5	118	89.49	18.31	-191.37	-116.94	-56.12	-100.33	-1.093e+04	-1.718e+06	-9.593e+05	-7.700e+05	-8.484e+05
		119	31.74	23.66	-79.13	-73.88	18.41	22.63	-1.953e+05	-6.813e+05	-5.432e+05	-3.334e+05	2.192e+05
		13	47.03	-8.40	-134.85	-109.22	-34.03	-50.83	-3.670e+05	-1.025e+06	-7.733e+05	-6.184e+05	-3.196e+05
		68	71.44	38.12	-130.27	-97.74	5.60	66.47	1.154e+05	-1.307e+06	-9.012e+05	-2.902e+05	5.621e+05
81	3	215	11.81	2.20	-15.88	-10.72	-2.96	-8.17	1.809e+04	-6.755e+04	-3.426e+04	-1.520e+04	4.175e+04
		199	13.06	1.88	-15.96	-9.88	-4.20	-8.45	9848.98	-8.118e+04	-5.673e+04	-1.461e+04	4.035e+04
		198	11.22	0.35	-14.74	-11.67	-2.72	-6.08	1.736e+04	-6.407e+04	-5.120e+04	4494.37	-2.970e+04
		197	9.45	0.17	-8.58	-5.27	-3.14	-4.24	2.440e+04	-4.684e+04	-2.228e+04	-163.09	-3.386e+04
81	4	215	10.94	0.33	-14.39	-10.59	-3.48	-6.45	1.264e+04	-6.529e+04	-3.748e+04	-1.516e+04	3.733e+04
		199	12.20	0.36	-14.69	-9.85	-4.48	-7.03	5213.77	-7.814e+04	-5.801e+04	-1.491e+04	3.567e+04
		198	10.67	-0.22	-13.73	-11.19	-2.77	-5.28	1.498e+04	-6.198e+04	-5.162e+04	4614.74	-2.627e+04
		197	8.87	-1.19	-8.03	-6.07	-3.15	-3.09	2.055e+04	-4.589e+04	-2.588e+04	544.15	-3.048e+04
81	5	215	14.96	6.08	-20.03	-11.75	-2.20	-12.15	3.181e+04	-7.915e+04	-3.007e+04	-1.727e+04	5.511e+04
		199	16.35	5.07	-19.70	-10.68	-3.96	-11.92	2.106e+04	-9.618e+04	-5.921e+04	-1.591e+04	5.448e+04
		198	13.66	1.49	-17.85	-13.49	-2.86	-8.08	2.491e+04	-7.538e+04	-5.532e+04	4853.99	-4.011e+04
		197	11.81	3.09	-10.54	-4.11	-3.34	-6.81	3.602e+04	-5.382e+04	-1.646e+04	-1343.29	-4.428e+04
82	3	154	4.42	4.34	-11.52	-11.25	4.07	2.04	-3884.25	-3.088e+04	-2.964e+04	-5126.76	-5657.14

		150	6.88	-3.90	-5.13	-3.97	-5.07	-0.28	2.411e+04	-2.874e+04	-4436.02	-192.94	2.634e+04
		22	12.93	24.12	-25.45	-24.95	23.62	-4.96	1.029e+04	-7.939e+04	-7.110e+04	1997.82	-2.598e+04
		244	13.08	-7.55	-19.31	-13.46	-13.40	5.88	2.242e+04	-7.347e+04	-6.325e+04	1.220e+04	2.958e+04
82	4	154	4.46	4.91	-11.79	-11.36	4.49	2.62	-3359.26	-3.092e+04	-2.986e+04	-4417.83	-5296.72
		150	6.23	-3.92	-6.96	-5.70	-5.18	-1.50	1.980e+04	-2.789e+04	-7651.07	-438.04	2.357e+04
		22	11.89	24.32	-21.82	-21.71	24.21	-2.27	1.032e+04	-7.253e+04	-6.500e+04	2793.07	-2.381e+04
		244	12.39	-7.03	-18.51	-11.46	-14.08	5.58	2.048e+04	-7.015e+04	-6.199e+04	1.231e+04	2.594e+04
82	5	154	4.58	3.68	-11.98	-11.90	3.60	1.09	-4654.00	-3.222e+04	-3.015e+04	-6721.55	-7260.52
		150	9.14	-0.20	-6.05	-0.99	-5.25	2.01	3.662e+04	-3.357e+04	3340.65	-291.32	3.505e+04
		22	16.22	26.17	-34.86	-33.02	24.34	-10.42	1.364e+04	-9.905e+04	-8.805e+04	2638.39	-3.344e+04
		244	15.93	-8.34	-23.08	-18.28	-13.14	6.91	2.926e+04	-8.800e+04	-7.218e+04	1.343e+04	4.007e+04
83	3	105	23.83	29.32	-41.15	-35.00	23.17	19.90	4770.13	-1.546e+05	-2.279e+05	-2.191e+04	0.45.950e+04
		152	16.59	8.02	-31.59	-30.96	7.38	4.99	-4.703e+04	-1.253e+05	-1.234e+05	-4.891e+04	1.199e+04
		17	29.02	32.70	-47.66	-46.45	31.49	9.80	-5.587e+04	-2.136e+05	-1.873e+05	-8.218e+04	0.45.882e+04
83	4	105	22.53	21.08	-35.84	-30.52	15.76	16.58	-1.273e+04	-1.547e+05	-1.256e+05	-4.187e+04	0.45.735e+04
		152	16.09	4.08	-28.33	-27.77	3.53	4.21	-5.399e+04	-1.226e+05	-1.209e+05	-5.568e+04	0.41.063e+04
		17	27.92	26.80	-41.18	-39.98	25.60	8.94	-6.255e+04	-2.081e+05	-1.788e+05	-9.182e+04	0.45.834e+04
83	5	105	29.88	47.33	-54.65	-46.38	39.05	27.84	4.827e+04	-1.677e+05	-1.432e+05	2.371e+04	6.857e+04
		152	19.30	16.12	-40.52	-39.71	15.31	6.73	-3.604e+04	-1.413e+05	-1.386e+05	-3.872e+04	0.41.658e+04
		17	34.16	47.74	-63.64	-62.14	46.25	12.83	-4.151e+04	-2.432e+05	-2.205e+05	-6.415e+04	0.46.366e+04
84	3	201	4.66	12.97	-20.43	12.97	-20.43	-0.39	2.669e+04	-6187.21	2.574e+04	-5239.81	-5500.18
		230	6.13	17.91	-21.64	17.75	-21.48	2.50	3.528e+04	-7913.66	3.527e+04	-7902.10	-706.73
		225	6.58	18.75	-21.28	17.87	-20.40	-5.86	3.967e+04	-5779.72	3.709e+04	-3200.20	-1.052e+04
		211	4.92	13.96	-22.02	13.72	-21.78	-2.92	2.593e+04	-5776.56	2.502e+04	-4866.46	-5293.94
84	4	201	4.59	9.38	-17.93	9.38	-17.93	-0.14	2.212e+04	-1.182e+04	2.164e+04	-1.134e+04	-3993.29
		230	5.80	13.41	-19.02	13.31	-18.92	1.80	2.713e+04	-1.598e+04	2.713e+04	-1.598e+04	82.13
		225	6.17	13.96	-18.72	13.31	-18.07	-4.57	3.117e+04	-1.423e+04	2.877e+04	-1.184e+04	-1.015e+04
		211	4.51	10.18	-19.00	9.97	-18.79	-2.45	2.125e+04	-1.213e+04	2.030e+04	-1.118e+04	-5555.51
84	5	201	5.63	21.14	-26.59	21.12	-26.57	-0.95	3.914e+04	5603.69	3.651e+04	8228.39	-9006.70
		230	8.02	28.16	-28.11	27.87	-27.82	4.05	5.629e+04	9455.03	5.617e+04	9578.32	-2399.94
		225	8.69	29.63	-27.59	28.25	-26.21	-8.79	6.186e+04	1.249e+04	5.851e+04	1.584e+04	-1.242e+04
		211	5.33	22.56	-29.34	22.24	-29.03	-4.05	3.789e+04	8282.98	3.688e+04	9289.91	-5366.31
85	3	244	10.57	7.57	-13.21	-12.71	7.08	3.16	1.511e+04	-6.117e+04	-6.744e+04	1387.82	2.930e+04
		22	20.94	1.12	-55.54	-27.08	-27.35	28.33	4.603e+04	-1.091e+05	-6.907e+04	5994.23	6.788e+04
		153	8.51	5.37	-4.05	5.37	-4.05	-0.15	7040.22	-5.281e+04	-1.493e+04	-3.085e+04	0.42.885e+04
		181	13.02	4.67	-24.28	-8.61	-10.99	14.43	2.371e+04	-7.159e+04	-1.742e+04	-3.046e+04	0.44.720e+04
85	4	244	10.27	6.64	-11.87	-11.47	6.24	2.70	1.359e+04	-6.020e+04	-4.789e+04	1279.35	2.751e+04
		22	18.90	0.33	-49.98	-23.21	-26.44	25.10	4.280e+04	-9.758e+04	-6.347e+04	8690.20	6.021e+04
		153	8.02	3.16	-4.06	3.13	-4.03	-0.48	1886.43	-5.246e+04	-2.026e+04	-3.031e+04	0.42.670e+04
		181	12.01	2.93	-22.30	-9.26	-10.11	12.61	1.845e+04	-6.839e+04	-2.168e+04	-2.825e+04	0.44.330e+04
85	5	244	12.32	9.93	-16.74	-16.04	9.23	4.28	2.046e+04	-6.934e+04	-5.102e+04	2141.23	3.619e+04
		22	27.43	2.88	-70.62	-36.53	-31.21	36.65	5.998e+04	-1.430e+05	-8.532e+04	2249.33	9.158e+04
		153	10.78	10.11	-4.44	10.09	-4.42	0.50	1.959e+04	-5.987e+04	-3878.96	-3.640e+04	3.625e+04
		181	16.62	8.48	-29.99	-7.99	-13.52	19.04	3.777e+04	-8.580e+04	-9437.26	-3.859e+04	6.004e+04
86	3	182	7.97	0.85	-10.94	-4.52	-5.56	5.87	5635.26	-4.979e+04	-4546.29	-3.961e+04	2.146e+04
		244	11.68	1.92	-18.62	-2.99	-13.71	8.76	1.879e+04	-6.609e+04	1701.35	-4.900e+04	3.403e+04
		181	11.18	3.50	-15.55	2.80	-14.85	3.58	1.696e+04	-6.402e+04	1.473e+04	-6.179e+04	1.325e+04
		183	8.87	0.43	-8.87	-0.14	-8.30	2.23	2.432e+04	-4.277e+04	2.287e+04	-4.131e+04	9774.72
86	4	182	7.85	0.71	-10.03	-3.96	-5.37	5.32	4652.67	-4.954e+04	-6713.22	-3.818e+04	2.206e+04
		244	11.07	1.23	-16.85	-2.91	-12.71	7.59	1.687e+04	-6.330e+04	-924.62	-4.550e+04	3.332e+04
		181	10.44	2.03	-14.35	1.15	-13.47	3.69	1.232e+04	-6.211e+04	9222.50	-5.901e+04	1.487e+04
		183	8.36	-0.53	-8.52	-1.40	-7.65	2.50	2.061e+04	-4.224e+04	1.823e+04	-3.987e+04	1.198e+04
86	5	182	9.09	1.22	-13.50	-5.93	-6.35	7.36	8615.48	-5.549e+04	-346.29	-4.653e+04	2.223e+04
		244	14.21	3.39	-23.43	-3.98	-16.66	11.65	2.563e+04	-7.844e+04	8158.93	-6.097e+04	3.890e+04
		181	14.03	6.77	-19.15	6.25	-18.63	3.64	2.882e+04	-7.495e+04	2.770e+04	-7.383e+04	1.073e+04
		183	11.02	2.63	-10.46	2.35	-10.18	1.89	3.574e+04	-4.836e+04	3.530e+04	-4.792e+04	6027.71
87	3	155	5.42	-1.54	-9.38	-8.08	-2.84	-2.91	1079.06	-3.536e+04	-3.504e+04	761.58	-3386.25
		146	5.98	0.70	-5.17	-4.79	0.32	-1.44	1455.49	-3.891e+04	-3.537e+04	-2081.28	-1.141e+04
		182	8.66	0.80	-12.41	-11.25	-0.35	-3.73	8986.39	-5.231e+04	-5.210e+04	8779.22	-3557.44
		183	8.15	-0.40	-7.85	-7.81	-0.44	-0.56	2.008e+04	-4.127e+04	-3.662e+04	1.543e+04	1.624e+04
87	4	155	5.66	-1.46	-8.30	-7.14	-2.62	-2.57	1080.21	-3.698e+04	-3.652e+04	622.99	-4146.20
		146	6.07	0.69	-4.43	-4.13	0.39	-1.20	1321.75	-3.962e+04	-3.591e+04	-2389.26	-1.176e+04
		182	8.48	0.57	-11.38	-10.39	-0.42	-3.30	7839.16	-5.187e+04	-5.139e+04	7355.58	-5351.78
		183	7.67	-0.59	-7.97	-7.81	-0.76	-1.10	1.657e+04	-4.062e+04	-3.774e+04	1.369e+04	1.249e+04
87	5	155	5.41	-1.81	-12.13	-10.47	-3.47	-3.78	1447.95	-3.502e+04	-3.492e+04	1354.52	-1843.41
		146	6.37	0.76	-6.99	-6.43	0.20	-2.01	1942.73	-4.120e+04	-3.762e+04	-1636.33	-1.190e+04
		182	9.97	1.32	-15.30	-13.75	-0.22	-4.83	1.279e+04	-5.867e+04	-5.867e+04	1.279e+04	-41.74
		183	10.22	0.18	-8.40	-8.38	0.15	0.48	3.078e+04	-4.711e+04	-3.735e+04	2.102e+04	2.578e+04
88	3	181	8.66	4.45	-14.61	-6.07	-4.09	9.48	2281.41	-5.602e+04	-2.638e+04	-2.736e+04	0.42.915e+04
		153	14.72	0.56	-16.05	-6.66	-8.84	8.24	3.182e+04	-7.774e+04	-1.630e+04	-2.963e+04	0.45.437e+04
		18	10.65	10.34	-20.47	-14.10	3.98	12.47	-3.462e+04	-8.101e+04	-7.590e+04	-3.973e+04	0.41.452e+04
		180	14.63	3.00	-21.09	-4.72	-13.37	11.24	3.002e+04	-7.824e+04	-8498.12	-3.972e+04	5.183e+04
88	4	181	8.19	3.92	-13.62	-6.10	-3.59	8.68	-537.73	-5.438e+04	-2.962e+04	-2.529e+04	0.42.683e+04
		153	13.32	-1.85	-14.75	-8.01	-8.60	6.44	2.406e+04	-7.383e+04	-2.097e+04	-2.880e+04	0.44.879e+04
		18	10.25	10.86	-18.67	-12.15	4.35	12.25	-3.480e+04	-7.810e+04	-7.411e+04	-3.878e+04	0.41.252e+04
		180	13.46	-0.06	-19.53	-5.52	-14.07	8.75	2.082e+04	-7.687e+04	-1.666e+04	-3.939e+04	0.44.751e+04
88	5	181	10.59	5.96	-17.67	-6.36	-5.34	11.81	9084.50	-6.493e+04	-2.126e+04	-3.458e+04	0.43.640e+04

		153	19.38	5.26	-19.92	-4.68	-9.98	12.31	5.189e+04-9.438e+04	-6678.39-3.582e+04	7.167e+04
		18	12.24	10.30	-25.45	-18.64	3.49	14.03	-3.562e+04-9.246e+04	-8.449e+04-4.360e+04	1.974e+04
		180	18.76	9.37	-25.81	-3.43	-13.00	16.93	5.259e+04-8.905e+04	8175.54-4.463e+04	6.571e+04
89	3	144	8.17	1.89	-25.40	-23.17	-0.35	7.48	4495.48-5.120e+04-4.529e+04	-1414.25	1.715e+04
		155	3.86	5.38	-10.82	-8.62	3.18	-5.55	4367.64-2.295e+04-2.289e+04	4305.69	1299.42
		183	12.22	-1.82	-14.33	-7.07	-9.08	6.17	3.387e+04-5.871e+04-3.891e+04	1.407e+04	3.797e+04
		23	10.11	25.17	-3.81	11.33	10.02	-14.48	6.417e+04	-5898.04	6.376e+04
89	4	144	7.63	1.12	-22.98	-20.95	-0.91	6.69	3143.09-4.841e+04-4.338e+04	-1887.55	1.530e+04
		155	4.20	5.26	-9.92	-7.95	3.29	-5.11	4237.43-2.532e+04-2.522e+04	4135.19	1735.52
		183	11.46	-3.25	-13.60	-6.91	-9.95	4.95	2.951e+04-5.700e+04-4.115e+04	1.366e+04	3.346e+04
		23	8.48	23.22	-4.10	7.56	11.55	-13.51	5.423e+04	-4112.53	5.350e+04
89	5	144	9.96	3.53	-31.83	-29.04	0.74	9.53	7417.89-6.128e+04-5.263e+04	-1227.24	2.278e+04
		155	3.42	5.95	-13.30	-10.52	3.17	-6.77	5664.94-1.903e+04-1.902e+04	5651.53	575.17
		183	15.31	1.10	-16.91	-7.89	-7.92	9.01	4.747e+04-6.913e+04-3.814e+04	1.649e+04	5.150e+04
		23	15.10	31.81	-4.72	19.48	7.61	-17.27	9.574e+04	-8440.30	9.563e+04
90	3	156	6.33	-1.04	-16.83	-15.81	-2.07	-3.89	-3599.09-4.334e+04-3.730e+04	-8328.98	3403.82
		144	6.84	3.04	-4.89	-1.11	-0.73	3.96	3.472e+04-1.664e+04	1.401e+04	4070.55
		23	17.16	4.91	-40.87	-36.83	0.87	-12.98	372.42-1.129e+05-8.510e+04	-2.740e+04	-4.872e+04
		184	15.15	5.59	-18.67	-17.48	4.39	5.25	5.886e+04-5.695e+04-4.118e+04	4.309e+04	3.973e+04
90	4	156	6.28	-0.55	-14.13	-13.67	-1.00	-2.44	-3244.80-4.296e+04-5.206e+04	-8139.10	-1.305e+04
		144	5.87	0.49	-4.99	-3.30	-1.20	2.53	2.819e+04-1.636e+04	8888.41	2940.74
		23	15.76	6.08	-32.96	-31.02	4.15	-8.47	2456.65-1.028e+05-7.770e+04	-2.262e+04	-4.484e+04
		184	14.11	2.02	-16.46	-15.43	0.99	4.24	5.212e+04-5.583e+04-4.299e+04	3.928e+04	3.495e+04
90	5	156	7.09	-1.77	-23.61	-21.07	-4.30	-6.99	-3562.14-4.819e+04-3.839e+04	-1.336e+04	-1.847e+04
		144	9.82	8.82	-5.55	3.14	0.14	7.03	5.330e+04-1.918e+04	2.791e+04	6201.26
		23	21.71	3.90	-60.15	-50.70	-5.55	-22.71	-1433.38-1.434e+05-1.066e+05	-3.827e+04	-6.223e+04
		184	19.07	13.02	-24.27	-22.66	11.41	7.58	7.987e+04-6.561e+04-4.158e+04	5.584e+04	5.402e+04
91	3	140	3.93	-1.09	-13.94	-13.86	-1.17	1.01	-2353.97-2.687e+04-2.578e+04	-3441.99	5048.90
		156	5.79	1.46	-14.60	-14.54	1.41	-0.93	6190.15-3.461e+04-3.455e+04	6129.83	1567.65
		184	8.68	2.21	-18.87	-18.68	2.03	1.96	1.513e+04-4.821e+04-3.978e+04	6697.61	2.151e+04
		185	7.55	2.23	-13.85	-13.19	1.57	3.19	1.995e+04-3.691e+04-1.983e+04	2868.66	2.607e+04
91	4	140	4.29	-0.72	-11.58	-11.50	-0.80	0.91	-1912.24-2.914e+04-2.815e+04	-2900.73	5093.00
		156	5.98	0.97	-12.56	-12.52	0.93	-0.72	5593.66-3.637e+04-3.634e+04	5558.93	1206.76
		184	8.40	1.64	-16.88	-16.63	1.40	2.13	1.323e+04-4.766e+04-4.099e+04	6558.89	1.901e+04
		185	7.31	1.65	-12.80	-12.35	1.20	2.51	1.672e+04-3.782e+04-2.402e+04	2929.13	2.371e+04
91	5	140	3.60	-1.87	-19.53	-19.44	-1.97	1.27	-3217.91-2.488e+04-2.330e+04	-4802.97	5641.56
		156	5.90	2.52	-19.58	-19.49	2.43	-1.41	8236.57-3.387e+04-3.375e+04	8109.64	2308.46
		184	10.28	3.53	-24.05	-23.94	3.42	1.76	2.167e+04-5.443e+04-4.079e+04	8031.83	2.918e+04
		185	9.08	3.56	-16.86	-15.68	2.38	4.76	2.984e+04-3.936e+04-1.267e+04	3145.75	3.368e+04
92	3	157	6.09	1.85	-22.31	-22.28	1.81	0.89	4531.76-3.738e+04-3.575e+04	2909.82	8083.44
		140	3.57	0.47	-12.26	-11.63	-0.17	-2.77	1551.73-2.261e+04-2.227e+04	1219.49	-2813.51
		185	8.98	2.05	-17.32	-17.08	1.82	2.10	2.173e+04-4.536e+04-4.038e+04	1.675e+04	1.759e+04
		24	9.11	2.23	-1.32	1.68	-0.77	-1.29	5.175e+04-1.514e+04	3.948e+04	-2862.11
92	4	157	6.09	1.39	-19.54	-19.53	1.37	0.52	3499.44-3.810e+04-3.672e+04	2119.13	7450.41
		140	3.97	0.49	-10.13	-9.57	-0.07	-2.36	1796.52-2.521e+04-2.489e+04	1473.97	-2933.79
		185	8.75	0.73	-15.70	-15.47	0.51	1.91	1.862e+04-4.624e+04-4.275e+04	1.513e+04	1.464e+04
		24	7.84	2.77	-2.61	0.20	-0.03	-2.69	4.420e+04-1.332e+04	3.143e+04	-556.10
92	5	157	6.57	2.89	-29.18	-29.09	2.80	1.68	7102.07-3.883e+04-3.631e+04	4585.09	1.045e+04
		140	3.08	0.44	-17.29	-16.46	-0.39	-3.74	1583.01-1.908e+04-1.864e+04	1143.64	-2981.13
		185	10.61	4.87	-21.60	-21.34	4.62	2.60	3.118e+04-4.905e+04-3.965e+04	2.177e+04	2.580e+04
		24	13.20	5.02	-2.65	4.70	-2.32	1.55	7.648e+04-1.934e+04	6.352e+04	-6373.79
93	2	158	7.71	0.55	-7.14	0.46	-7.05	0.86	1252.05-5.054e+04	1048.76	-5.033e+04
		186	7.95	-0.07	-12.20	-0.19	-12.08	-1.20	4720.09-5.007e+04	4706.90	-5.006e+04
		187	7.91	0.41	-11.63	0.25	-11.47	1.39	8065.28-4.788e+04	7121.74	-4.693e+04
		131	6.16	-0.55	-6.54	-0.57	-6.53	-0.33	1781.25-3.994e+04	1573.22	-3.973e+04
93	3	158	3.90	0.32	-21.53	0.24	-21.45	1.39	2031.63-2.422e+04	1914.78	-2.410e+04
		186	5.43	2.82	-18.36	2.80	-18.34	0.69	1.222e+04-2.795e+04	8348.07	-2.408e+04
		187	5.74	3.36	-16.82	2.57	-16.03	-3.90	2.109e+04-2.263e+04	7792.11	-9331.92
		131	2.54	-0.19	-18.56	-0.19	-18.55	-0.16	289.65-1.621e+04	81.23	-1.600e+04
93	4	158	4.38	0.33	-17.89	0.25	-17.80	1.23	1788.01-2.770e+04	1750.93	-2.766e+04
		186	5.57	2.14	-16.36	2.13	-16.36	0.29	1.044e+04-3.030e+04	7738.81	-2.760e+04
		187	5.61	2.47	-14.91	2.01	-14.46	-2.77	1.771e+04-2.478e+04	7590.62	-1.466e+04
		131	3.04	-0.23	-15.46	-0.23	-15.46	-0.19	466.72-1.949e+04	274.42	-1.930e+04
94	3	136	1.33	-1.65	-7.22	-1.79	-7.08	0.88	2353.48	-7355.99	-4442.02
		24	12.35	4.63	-38.61	-5.11	-28.86	18.07	8940.57-7.614e+04-1.809e+04	-4.911e+04	3.961e+04
		186	10.11	8.41	-17.49	8.37	-17.45	-0.99	4.256e+04-3.441e+04	3.491e+04	-2.676e+04
		158	5.03	-0.27	-23.77	-1.83	-22.22	5.85	-1391.95-3.340e+04	-4513.14	-3.027e+04
94	4	136	1.01	-1.33	-7.39	-1.48	-7.24	0.95	-1628.14	-7346.33	-4556.21
		24	11.60	3.58	-31.33	-2.64	-25.10	13.36	1.005e+04-7.075e+04-1.474e+04	-4.595e+04	3.726e+04
		186	9.51	5.49	-15.55	5.48	-15.54	-0.52	3.661e+04-3.600e+04	3.112e+04	-3.051e+04
		158	5.32	-0.21	-19.50	-1.35	-18.36	4.56	-1013.44-3.535e+04	-3736.28	-3.263e+04
94	5	136	2.86	-2.39	-7.28	-2.52	-7.14	0.80	1.274e+04	-9047.07	-5011.34
		24	15.04	7.54	-56.02	-10.42	-38.06	28.62	9512.76-9.315e+04-2.543e+04	-5.821e+04	4.865e+04
		186	12.69	14.84	-22.39	14.74	-22.28	-2.01	6.021e+04-3.544e+04	4.653e+04	-2.176e+04
		158	4.91	-0.40	-33.79	-2.91	-31.28	8.80	-1747.59-3.248e+04	-6277.31	-2.795e+04
95	3	159	6.66	2.72	-8.79	0.87	-6.94	-4.23	3.815e+04-1.046e+04	4979.86	2.271e+04
		28	14.94	-5.05	-43.22	-12.34	-35.93	15.01	4333.69-9.620e+04-4.496e+04	-4.691e+04	5.026e+04

		188	13.16	19.61	-23.43	18.07	-21.89	-7.99	7.081e+04-2.584e+04	5.675e+04-1.178e+04-3.407e+04
		127	4.46	-2.58	-21.75	-3.38	-20.95	3.83	3370.99-2.735e+04	-6199.46-1.778e+04 1.423e+04
95	4	159	5.69	1.21	-9.09	0.30	-8.18	-2.92	3.089e+04-1.139e+04	3595.96 1.591e+04-2.022e+04
		28	13.40	-3.40	-33.29	-7.03	-29.66	9.76	4561.99-8.616e+04-3.769e+04-4.390e+04	4.525e+04
		188	12.47	13.29	-20.32	12.02	-19.05	-6.40	6.350e+04-2.945e+04	5.148e+04-1.742e+04-3.120e+04
		127	4.29	-1.82	-17.85	-2.16	-17.51	2.29	2247.27-2.698e+04	-4878.02-1.985e+04 1.255e+04
95	5	159	9.70	6.65	-9.18	2.11	-4.65	-7.16	5.895e+04 -9850.24	7730.57 4.137e+04-3.001e+04
		28	19.69	-7.54	-67.12	-24.05	-50.61	26.67	7549.56-1.254e+05-6.278e+04-5.507e+04	0.466.637e+04
		188	16.18	33.75	-30.98	31.58	-28.81	-11.66	9.425e+04-2.094e+04	7.422e+04 -903.79-4.366e+04
		127	5.50	-4.01	-31.14	-6.09	-29.06	7.21	8100.41-3.126e+04	-9095.16-1.407e+04 1.952e+04
96	3	177	12.81	30.73	-22.06	30.57	-21.89	-2.95	7.568e+04-1.455e+04	7.535e+04-1.421e+04 -5505.43
		98	24.74	40.17	-13.87	35.39	-9.10	-15.33	1.568e+05-1.245e+04	1.470e+05 -2679.62-3.946e+04
		31	21.91	38.11	-8.80	34.67	-5.36	-12.22	1.512e+05 1.409e+04	1.350e+05 3.029e+04-4.427e+04
		176	15.67	35.24	-17.64	28.99	-11.39	-17.07	1.043e+05 2591.86	9.118e+04 1.571e+04-3.410e+04
96	4	177	10.71	22.93	-19.59	22.79	-19.44	-2.50	5.459e+04-2.462e+04	5.420e+04-2.424e+04 -5508.23
		98	19.06	29.45	-13.04	25.34	-8.92	-12.57	1.123e+05-2.365e+04	1.030e+05-1.430e+04-3.439e+04
		31	16.18	29.89	-8.96	27.61	-6.68	-9.12	1.079e+05 2292.82	9.459e+04 1.561e+04-3.506e+04
		176	12.25	26.78	-16.28	21.73	-11.23	-13.86	7.514e+04 -9742.66	6.363e+04 1772.66-2.907e+04
96	5	177	19.26	48.45	-28.27	48.24	-28.06	-4.01	1.299e+05 7441.85	1.296e+05 7738.57 -6020.68
		98	40.52	63.78	-16.36	57.28	-9.86	-21.88	2.734e+05 1.170e+04	2.344e+05-5.418e+04
		31	37.45	57.64	-9.12	51.78	-3.25	-18.90	2.666e+05 4.367e+04	2.422e+05 6.805e+04-6.958e+04
		176	25.18	54.52	-21.40	45.47	-12.36	-24.59	1.793e+05 3.139e+04	1.612e+05 4.946e+04-4.843e+04
97	3	236	4.44	3.54	-24.30	-13.21	-7.56	13.63	1221.55-2.810e+04-1.934e+04	-7538.98 1.342e+04
		189	2.41	3.18	-16.26	-7.92	-5.16	9.62	1.086e+04 -7075.67	6886.48 -3098.63 7451.71
		201	5.39	13.62	-21.90	-5.05	-3.23	17.74	2.415e+04-1.595e+04	-1113.22 9315.60 1.936e+04
		29	13.69	15.83	-20.41	12.35	-16.93	10.67	7.809e+04-2.106e+04	7.807e+04-2.105e+04 1181.41
97	4	236	4.86	2.60	-20.20	-10.99	-6.60	11.19	1258.64-3.102e+04-2.034e+04	-9419.28 2.1519e+04
		189	2.78	2.47	-14.90	-7.62	-4.80	8.57	9314.76-1.152e+04	2105.56 -4312.15 9911.57
		201	5.57	9.85	-19.20	-5.32	-4.03	14.51	2.009e+04-2.180e+04	-6700.85 4988.07 2.011e+04
		29	12.21	10.18	-16.42	6.70	-12.93	8.97	6.966e+04-1.897e+04	6.946e+04-1.877e+04 4150.49
97	5	236	3.99	5.66	-33.99	-18.43	-9.90	19.36	1614.05-2.462e+04-1.876e+04	-4245.38 1.093e+04
		189	2.84	4.83	-19.82	-8.86	-6.13	12.25	1.856e+04 -697.76	1.809e+04 -232.77 2955.82
		201	5.78	22.19	-28.53	-4.67	-1.68	25.32	3.455e+04 -4970.14	9926.47 1.965e+04 1.915e+04
		29	18.45	28.78	-30.06	24.84	-26.12	14.71	1.070e+05-2.538e+04	1.067e+05-2.515e+04 -5422.75
98	3	131	2.82	-1.00	-18.12	-1.01	-18.10	-0.50	-721.40-1.869e+04	-3334.51-1.608e+04 -6335.26
		187	8.08	9.78	-17.70	9.63	-17.55	-1.98	4.010e+04-2.017e+04	3.755e+04-1.762e+04-1.213e+04
		28	12.39	-2.75	-13.92	-8.35	-8.32	-5.59	4.341e+04-5.160e+04-3.797e+04	2.370e+04-3.330e+04
		159	2.65	2.15	-19.51	1.71	-19.07	-3.04	4693.87-1.418e+04	4019.96-1.351e+04 -3502.07
98	4	131	3.15	-0.30	-15.04	-0.30	-15.04	0.03	-602.06-2.085e+04	-2511.99-1.894e+04 -5917.94
		187	8.03	5.93	-15.68	5.80	-15.55	-1.67	3.613e+04-2.461e+04	3.422e+04-2.270e+04-1.059e+04
		28	10.86	-2.81	-9.21	-4.19	-7.83	-2.63	3.757e+04-4.581e+04-3.194e+04	2.370e+04-3.105e+04
		159	2.91	1.31	-18.17	0.88	-17.73	-2.88	3366.80-1.687e+04	2759.13-1.626e+04 -3453.82
98	5	131	2.57	-2.44	-25.45	-2.56	-25.33	-1.65	451.82-1.636e+04	-4979.42-1.093e+04 -7861.35
		187	9.28	18.31	-22.74	18.14	-22.56	-2.71	5.313e+04-1.326e+04	4.856e+04 -8683.95-1.681e+04
		28	17.17	-0.94	-26.34	-17.49	-9.79	-12.10	6.393e+04-6.753e+04-5.267e+04	4.907e+04-4.162e+04
		159	2.20	4.01	-23.13	3.55	-22.67	-3.48	7496.98 -8521.43	6484.17 -7508.62 -3898.44
99	2	160	7.38	0.55	-8.29	0.41	-8.15	1.11	764.10-4.851e+04	163.57-4.791e+04 5406.68
		189	7.94	-1.01	-11.64	-1.07	-11.58	0.79	6254.25-4.913e+04	6048.41-4.892e+04 3370.04
		236	6.89	1.16	-11.40	0.57	-10.81	2.65	9243.14-4.029e+04	8668.54-3.972e+04 -5303.98
		123	4.97	-0.64	-8.87	-0.66	-8.86	0.31	146.93-3.277e+04	125.67-3.275e+04 -836.22
99	3	160	2.52	-1.05	-25.94	-1.33	-25.66	2.64	-1832.25-1.679e+04	-1881.00-1.674e+04 852.57
		189	4.18	4.46	-18.91	4.41	-18.86	1.08	1.595e+04-1.549e+04	1.502e+04-1.457e+04 -5308.84
		236	3.76	2.83	-21.04	2.19	-20.41	-3.85	1.309e+04-1.525e+04	5570.98 -7726.01-1.251e+04
		123	1.91	1.11	-18.90	1.11	-18.89	0.15	2729.87-1.049e+04	2584.93-1.035e+04 -1376.78
99	4	160	3.18	-0.72	-21.46	-0.96	-21.22	2.23	-1497.46-2.121e+04	-1609.24-2.110e+04 1480.05
		189	4.52	3.27	-16.65	3.22	-16.61	0.97	1.410e+04-1.985e+04	1.362e+04-1.937e+04 -4015.78
		236	3.90	2.11	-17.97	1.79	-17.65	-2.51	1.134e+04-1.783e+04	5885.36-1.238e+04-1.137e+04
		123	2.33	0.74	-16.12	0.74	-16.12	0.17	2335.36-1.371e+04	2234.44-1.361e+04 -1268.55
100	3	162	3.83	-2.48	-27.09	-3.21	-26.37	-4.16	-1483.73-2.557e+04	-8239.22-1.882e+04-1.082e+04
		191	8.40	13.73	-19.78	13.73	-19.78	-0.03	4.549e+04-1.585e+04	4.336e+04-1.373e+04 1.123e+04
		35	13.04	1.03	-36.43	-10.83	-24.57	-17.42	2.115e+04-7.343e+04-4.075e+04	-1.153e+04-4.498e+04
		149	2.21	2.22	-10.63	2.21	-10.62	-0.27	1.252e+04 -3646.90	4735.40 4141.39 8079.84
100	4	162	4.04	-1.78	-22.39	-2.23	-21.94	-3.01	-1912.72-2.720e+04	-6833.38-2.228e+04-1.001e+04
		191	8.16	9.55	-17.30	9.55	-17.30	-0.15	4.045e+04-2.051e+04	3.889e+04-1.895e+04 9604.04
		35	11.83	0.54	-28.56	-6.78	-21.25	-12.62	1.945e+04-6.657e+04-3.417e+04	-1.296e+04-4.169e+04
		149	1.81	1.46	-10.41	1.43	-10.38	-0.55	8549.68 -5170.34	3415.20 -35.86 6639.45
100	5	162	4.10	-4.02	-38.19	-5.42	-36.79	-6.77	1605.80-2.579e+04-1.159e+04	-1.259e+04-1.369e+04
		191	9.99	23.18	-25.83	23.18	-25.83	0.22	6.115e+04 -7913.19	5.732e+04 -4082.45 1.581e+04
		35	17.05	2.77	-55.24	-19.86	-32.60	-28.30	3.031e+04-9.383e+04-5.695e+04	-6570.26-5.673e+04
		149	3.70	3.96	-11.54	3.95	-11.53	0.33	2.373e+04 -1522.24	7386.72 1.482e+04 1.207e+04
101	3	225	7.66	16.68	-24.50	14.74	-22.56	-8.71	4.040e+04-1.551e+04	3.310e+04 -8217.32-1.883e+04
		222	15.01	33.06	-16.67	31.82	-15.43	-7.76	1.040e+05 1.134e+04	1.040e+05 1.134e+04 64.94
		30	14.56	14.35	-29.70	2.03	-17.38	-19.77	6.275e+04-4.800e+04-1.115e+04	2.591e+04-5.219e+04
		234	3.44	12.02	-16.89	10.10	-14.96	-7.21	2.386e+04 2182.48	1.987e+04 6170.11 8398.16
101	4	225	7.35	12.62	-20.88	11.26	-19.52	-6.61	3.277e+04-2.248e+04	2.597e+04-1.568e+04-1.815e+04
		222	12.99	23.80	-15.91	22.77	-14.88	-6.31	8.503e+04 -1041.87	8.503e+04 -1041.77 95.59
		30	13.19	11.13	-24.07	3.66	-16.60	-14.40	5.254e+04-4.825e+04-1.320e+04	1.749e+04-4.800e+04

		234	2.65	9.66	-15.56	7.93	-13.83	-6.37	1.526e+04	-3745.16	1.301e+04	-1494.35	6141.75
101	5	225	9.56	25.98	-33.17	22.74	-29.93	-13.46	6.167e+04	-1306.48	5.216e+04	8206.62	-2.255e+04
		222	21.37	53.90	-19.11	52.14	-17.35	-11.19	1.562e+05	3.966e+04	1.562e+05	3.966e+04	526.28
		30	19.20	22.73	-43.62	-1.11	-19.79	-31.83	9.464e+04	-4.920e+04	-4899.97	5.034e+04	-6.640e+04
		234	6.07	17.58	-20.52	15.15	-18.09	-9.31	4.562e+04	1.484e+04	3.561e+04	2.485e+04	1.442e+04
102	3	224	8.52	14.88	-20.32	-0.38	-5.06	-17.44	4.248e+04	-2.088e+04	2.707e+04	-5475.89	-2.718e+04
		33	2.35	8.77	-20.61	-11.57	-0.27	-13.56	-1.105e+04	-1.770e+04	-1.736e+04	-1.139e+04	1461.76
		212	8.93	11.68	-18.22	-2.59	-3.95	-14.94	3.767e+04	-3.016e+04	2.733e+04	-1.981e+04	-2.438e+04
		203	5.20	9.68	-19.22	-5.24	-4.31	-14.44	2.422e+04	-1.474e+04	1.692e+04	-7435.32	-1.521e+04
102	4	224	7.99	9.96	-17.85	-1.51	-6.38	-13.69	3.416e+04	-2.627e+04	1.784e+04	-9945.79	-2.684e+04
		33	2.99	8.78	-18.62	-9.24	-0.60	-13.00	-1.463e+04	-2.239e+04	-2.237e+04	-1.464e+04	332.59
		212	8.02	8.22	-16.46	-4.10	-4.13	-12.34	2.887e+04	-3.219e+04	1.793e+04	-2.125e+04	-2.341e+04
		203	5.04	6.86	-16.88	-5.00	-5.02	-11.87	2.009e+04	-1.803e+04	1.127e+04	-9207.73	-1.608e+04
102	5	224	10.72	25.83	-26.47	1.94	-2.59	-26.05	6.382e+04	-1.150e+04	4.916e+04	3161.37	-2.982e+04
		33	1.58	9.50	-25.91	-16.71	0.30	-15.53	410.68	-9761.03	-6104.17	-3246.18	4880.97
		212	11.93	19.44	-22.89	0.31	-3.76	-21.07	6.014e+04	-2.892e+04	5.044e+04	-1.922e+04	-2.775e+04
		203	6.33	16.11	-25.06	-5.92	-3.03	-20.54	3.651e+04	-8781.87	3.164e+04	-3918.95	-1.402e+04
103	3	164	4.17	-3.76	-19.41	-3.77	-19.40	-0.43	-68.40	-2.751e+04	-1.037e+04	-1.721e+04	-1.329e+04
		239	10.73	11.06	-23.95	10.60	-23.49	3.98	4.708e+04	-3.405e+04	4.350e+04	-3.048e+04	1.664e+04
		34	14.84	-4.23	-36.32	-10.27	-30.28	-12.55	2166.75	-9.697e+04	-5.617e+04	5.617e+04	-4.878e+04
		145	6.61	6.20	-9.97	1.89	-5.66	7.15	3.646e+04	-1.201e+04	9870.22	1.458e+04	2.412e+04
103	4	164	3.91	-2.61	-17.02	-2.63	-17.00	0.58	-1964.41	-2.669e+04	-9026.02	-1.963e+04	-1.117e+04
		239	10.34	6.84	-19.81	6.38	-19.35	3.48	4.258e+04	-3.610e+04	3.943e+04	-3.296e+04	1.541e+04
		34	13.19	-2.55	-28.30	-5.33	-25.52	-7.99	1614.78	-8.652e+04	-4.833e+04	-3.658e+04	-4.367e+04
		145	5.87	3.63	-9.52	0.98	-6.87	5.27	3.071e+04	-1.295e+04	8317.71	9439.86	2.182e+04
103	5	164	5.48	-5.99	-25.64	-6.33	-25.30	-2.56	6471.59	-3.256e+04	-1.388e+04	-1.221e+04	-1.950e+04
		239	12.68	20.40	-33.72	19.90	-33.22	5.20	6.168e+04	-3.280e+04	5.691e+04	-2.803e+04	2.068e+04
		34	19.89	-6.48	-56.16	-21.07	-41.57	-22.62	7044.03	-1.274e+05	-7.687e+04	-4.352e+04	-6.514e+04
		145	9.01	12.18	-11.71	3.89	-3.42	11.37	5.325e+04	-1.103e+04	1.368e+04	2.853e+04	3.127e+04
104	2	147	6.36	0.75	-6.24	0.67	-6.16	-0.75	1300.96	-4.154e+04	1111.22	-4.135e+04	-2844.75
		192	8.33	-0.64	-12.14	-0.64	-12.13	-0.30	7573.46	-5.096e+04	7391.20	-5.078e+04	-3261.10
		239	6.53	1.05	-12.33	1.00	-12.28	0.87	7704.77	-3.878e+04	5226.39	-3.631e+04	-1.044e+04
		164	6.43	-0.84	-9.61	-1.19	-9.26	-1.73	177.37	-4.244e+04	-1693.45	-4.057e+04	-8730.84
104	3	147	2.48	-1.01	-21.86	-1.26	-21.60	-2.28	-1486.58	-1.655e+04	-1532.43	-1.650e+04	829.69
		192	4.61	5.59	-20.01	5.48	-19.90	-1.68	1.733e+04	-1.744e+04	1.568e+04	-1.579e+04	7388.93
		239	3.64	2.12	-23.34	-0.36	-20.85	-7.55	4981.04	-2.060e+04	4177.96	-1.980e+04	-4461.05
		164	2.97	1.14	-21.33	0.10	-20.29	-4.72	4499.38	-1.645e+04	3624.59	-1.558e+04	-4191.04
104	4	147	2.99	-0.64	-17.95	-0.85	-17.74	-1.89	-1180.20	-1.994e+04	-1184.21	-1.993e+04	274.03
		192	4.91	4.19	-17.61	4.10	-17.53	-1.34	1.530e+04	-2.161e+04	1.437e+04	-2.068e+04	5783.44
		239	4.03	1.52	-19.88	-0.10	-18.27	-5.65	5220.67	-2.320e+04	4192.02	-2.217e+04	-5308.13
		164	3.45	0.73	-18.17	-0.14	-17.31	-3.95	3869.75	-2.017e+04	2860.75	-1.916e+04	-4820.89
105	3	30	24.49	42.73	-17.87	14.47	10.39	30.23	1.733e+05	2.665e+04	9.034e+04	1.096e+05	7.270e+04
		222	8.41	26.34	-23.44	6.54	-3.64	24.36	5.402e+04	-1503.28	3.742e+04	1.509e+04	2.542e+04
		240	14.61	32.63	-17.65	14.01	0.97	24.28	9.632e+04	488.02	4.972e+04	4.709e+04	4.790e+04
		221	3.01	11.23	-20.64	4.59	-14.01	12.94	-5261.09	-2.138e+04	-7455.91	-1.918e+04	5527.82
105	4	30	21.68	28.60	-16.39	8.02	4.19	22.41	1.513e+05	1.747e+04	7.645e+04	9.235e+04	6.645e+04
		222	6.92	19.73	-20.17	3.04	-3.48	19.68	3.869e+04	-1.082e+04	2.338e+04	4482.83	2.288e+04
		240	12.19	23.70	-16.40	9.71	-2.41	19.11	7.465e+04	-1.018e+04	3.406e+04	3.041e+04	4.237e+04
		221	4.11	10.00	-18.62	3.70	-12.32	11.86	-1.196e+04	-3.071e+04	-1.428e+04	-2.839e+04	6175.78
105	5	30	33.20	74.09	-21.88	28.54	23.67	47.92	2.403e+05	5.285e+04	1.322e+05	1.610e+05	9.263e+04
		222	12.88	41.46	-31.44	14.13	-4.12	35.29	9.259e+04	2.066e+04	7.193e+04	4.132e+04	3.255e+04
		240	21.72	52.81	-21.26	23.58	7.97	36.20	1.538e+05	2.534e+04	9.018e+04	8.898e+04	6.423e+04
		221	1.83	14.40	-25.87	6.69	-18.15	15.85	8875.00	-3590.15	6684.71	-1399.86	4743.94
106	3	145	3.85	3.23	-18.58	2.48	-17.82	3.99	7545.02	-2.038e+04	5218.41	-1.806e+04	7717.96
		34	11.15	-3.19	-8.90	-5.95	-6.14	2.85	4.619e+04	-3.948e+04	-3.232e+04	3.903e+04	2.371e+04
		193	8.16	7.01	-16.30	6.13	-15.41	4.45	3.623e+04	-2.551e+04	2.988e+04	-1.915e+04	1.877e+04
		165	2.85	-0.95	-19.65	-0.95	-19.65	0.02	-511.52	-1.869e+04	-2284.50	-1.692e+04	5393.98
106	4	145	3.87	2.21	-16.96	1.50	-16.25	3.61	6041.99	-2.161e+04	4006.80	-1.958e+04	7220.60
		34	9.67	-2.18	-6.50	-2.35	-6.32	0.86	3.947e+04	-3.489e+04	-2.701e+04	3.159e+04	2.288e+04
		193	7.99	3.96	-14.63	3.17	-13.84	3.75	3.217e+04	-2.869e+04	2.720e+04	-2.372e+04	1.666e+04
		165	3.33	-0.32	-16.55	-0.33	-16.54	-0.39	-337.89	-2.191e+04	-1701.59	-2.054e+04	5249.11
106	5	145	4.04	5.53	-22.78	4.63	-21.88	4.96	1.114e+04	-1.872e+04	7759.51	-1.534e+04	9467.21
		34	15.81	-1.78	-18.08	-13.76	-6.10	7.19	6.907e+04	-5.182e+04	-4.501e+04	-6.226e+04	2.787e+04
		193	9.58	13.73	-20.58	12.61	-19.46	6.11	4.912e+04	-2.192e+04	3.865e+04	-1.146e+04	2.518e+04
		165	2.19	-2.29	-27.10	-2.32	-27.06	0.89	433.07	-1.381e+04	-3308.32	-1.007e+04	6268.05
107	3	143	5.17	-0.85	-19.77	-2.56	-18.06	-5.43	-3561.53	-3.550e+04	-1.011e+04	-2.896e+04	-1.289e+04
		194	12.29	9.82	-18.48	9.50	-18.16	3.00	5.304e+04	-4.043e+04	4.187e+04	-2.926e+04	3.032e+04
		36	15.11	3.32	-39.80	-6.54	-29.95	-18.11	6432.18	-9.604e+04	-3.153e+04	-5.808e+04	-4.949e+04
		166	3.41	-0.46	-8.55	-0.55	-8.46	0.85	1.456e+04	-1.159e+04	2107.26	864.22	1.306e+04
107	4	143	5.24	-0.41	-16.10	-1.61	-14.90	-4.16	-3196.45	-3.590e+04	-8560.59	-3.053e+04	-1.211e+04
		194	11.50	6.18	-16.37	5.96	-16.15	2.22	4.622e+04	-4.159e+04	3.761e+04	-2.298e+04	3.032e+04
		36	13.97	3.15	-31.76	-2.93	-25.69	-13.23	7774.08	-8.798e+04	-2.657e+04	-5.363e+04	-4.593e+04
		166	2.83	-0.99	-8.80	-1.00	-8.78	0.34	9415.47	-1.224e+04	978.08	-3799.39	1.056e+04
107	5	143	5.63	-1.73	-28.38	-4.63	-25.47	-8.31	-3722.27	-3.842e+04	-1.402e+04	-2.812e+04	-1.585e+04
		194	15.44	17.77	-23.80	17.22	-23.24	4.77	7.355e+04	-4.285e+04	5.519e+04	-2.449e+04	4.243e+04
		36	18.97	4.53	-58.98	-14.23	-40.23	-28.97	6792.93	-1.210e+05	-4.342e+04	-7.073e+04	-6.240e+04
		166	5.45	0.73	-8.70	0.32	-8.29	1.92	2.866e+04	-1.218e+04	4204.00	1.228e+04	2.002e+04

108	3	36	23.29	27.34	-4.63	24.28	-1.56	9.41	1.480e+05-1.180e+04	1.399e+05	-3657.95	3.514e+04			
		204	11.74	7.02	-28.21	-1.94	-19.25	-15.34	2.046e+04-6.490e+04	1936.46-4.638e+04	-3.518e+04	1.104e+04			
		195	5.98	1.49	-7.50	-0.09	-5.92	-3.42	1.665e+04-2.856e+04	1.377e+04-2.568e+04	-1.104e+04	1.104e+04			
		235	7.75	0.02	-19.53	-15.73	-3.78	-7.74	-7635.95-5.445e+04-4.034e+04-2.175e+04-2.149e+04						
108	4	36	20.41	18.20	-3.37	15.31	-0.47	7.36	1.306e+05	-9226.27	1.248e+05	-3433.21	2.786e+04		
		204	11.02	4.08	-24.29	-3.26	-16.95	-12.42	1.640e+04-6.300e+04	-2825.81-4.377e+04-3.401e+04					
		195	5.66	0.89	-7.68	-1.24	-5.56	-3.70	1.294e+04-2.926e+04	8296.96-2.462e+04-1.321e+04					
		235	7.77	-0.22	-16.10	-12.64	-3.67	-6.55	-6879.03-5.434e+04-3.883e+04-2.239e+04-2.226e+04						
108	5	36	32.08	47.60	-7.75	43.79	-3.93	14.02	2.037e+05-1.594e+04	1.891e+05	-1277.48	5.482e+04			
		204	14.38	13.42	-37.75	0.67	-25.00	-22.14	3.079e+04-7.511e+04	1.168e+04-5.599e+04-4.073e+04					
		195	7.72	3.13	-7.98	2.18	-7.04	-3.10	2.801e+04-3.104e+04-2.702e+04-3.005e+04	-7569.75					
		235	8.53	0.56	-27.64	-22.85	-4.24	-10.60	-9828.63-6.025e+04-4.745e+04-2.263e+04-2.195e+04						
109	3	222	10.63	28.93	-20.19	27.60	-18.86	7.98	7.351e+04	8605.31	7.118e+04	1.093e+04	1.206e+04		
		176	15.13	34.66	-17.28	32.29	-14.91	10.83	1.022e+05	5900.30	9.680e+04	1.134e+04	2.224e+04		
		175	15.57	33.65	-17.78	33.57	-17.70	2.03	9.903e+04	-6305.43	9.876e+04	-6043.17	5249.34		
		240	11.90	29.02	-20.57	28.94	-20.49	1.98	7.590e+04	-4109.90	7.459e+04	-2799.25	1.016e+04		
109	4	222	8.90	21.28	-18.08	20.11	-16.90	6.71	5.713e+04	-2265.00	5.490e+04	-32.95	1.130e+04		
		176	11.67	26.40	-15.92	24.49	-14.01	8.78	7.332e+04	-6210.04	6.869e+04	-1581.83	1.862e+04		
		175	12.25	25.20	-16.21	25.14	-16.15	1.56	7.022e+04-1.759e+04	6.990e+04-1.727e+04	5272.91				
		240	9.85	21.59	-18.46	21.56	-18.43	1.23	5.613e+04-1.448e+04	5.513e+04-1.348e+04	8345.27				
109	5	222	15.81	46.25	-25.60	44.51	-23.87	11.02	1.167e+05	3.488e+04	1.139e+05	3.772e+04	1.496e+04		
		176	24.65	53.59	-21.03	50.18	-17.62	15.59	1.769e+05	3.472e+04	1.691e+05	4.252e+04	3.237e+04		
		175	24.99	52.75	-21.93	52.62	-21.80	3.10	1.733e+05	1.922e+04	1.731e+05	1.943e+04	5711.63		
		240	18.03	45.85	-26.01	45.67	-25.82	3.62	1.270e+05	1.952e+04	1.248e+05	2.164e+04	1.493e+04		
110	3	166	5.58	1.39	-22.03	1.39	-22.03	-0.20	1.264e+04-2.846e+04	1.254e+04-2.836e+04	2032.53				
		36	10.33	7.63	-11.77	-5.53	1.39	-9.06	3.668e+04-4.259e+04-3.461e+04	2.870e+04	2.386e+04				
		235	10.95	3.08	-11.60	2.46	-10.98	-2.96	4.837e+04-3.520e+04	4.767e+04-3.450e+04	7621.42				
		141	1.93	0.91	-13.30	-0.87	-11.51	-4.71	147.30-1.254e+04	-440.54-1.195e+04	2666.95				
110	4	166	5.43	0.62	-20.62	0.61	-20.62	0.28	1.046e+04-2.912e+04	1.045e+04-2.910e+04	788.34				
		36	8.77	9.56	-10.35	-1.50	0.70	-9.90	3.028e+04-3.680e+04-2.952e+04	2.300e+04	2.087e+04				
		235	10.43	0.17	-9.95	-0.55	-9.22	-2.61	4.321e+04-3.672e+04	4.291e+04-3.642e+04	4892.12				
		141	2.14	1.68	-12.40	-0.30	-10.42	-4.89	-137.77-1.403e+04	-335.87-1.384e+04	1647.30				
110	5	166	6.32	3.10	-26.14	3.05	-26.09	-1.20	1.848e+04-2.885e+04	1.786e+04-2.823e+04	5376.63				
		36	14.98	5.85	-17.10	-14.02	2.78	-7.82	5.771e+04-5.741e+04-4.702e+04	4.732e+04	3.299e+04				
		235	13.37	9.34	-15.81	8.74	-15.21	-3.84	6.511e+04-3.578e+04	6.296e+04-3.363e+04	1.456e+04				
		141	1.83	-0.57	-15.90	-2.10	-14.38	-4.58	2625.19-1.058e+04	-239.47	-7715.99	5442.79			
111	3	172	16.11	13.82	-30.86	-8.38	-8.67	-22.34	1.223e+04-1.118e+05	5.547e+04-6.853e+04-4.934e+04					
		171	19.95	9.19	-28.44	-7.63	-11.62	-18.71	-4.831e+04-1.494e+05	-8.734e+04-1.103e+05-4.921e+04					
		10	24.96	4.11	-53.32	-31.06	-18.15	-27.98	8135.42-1.605e+05-1.344e+05-1.797e+04-6.101e+04						
		200	14.82	3.65	-13.79	-8.59	-1.55	-7.98	-7106.00-1.016e+05-6.436e+04-4.438e+04-4.619e+04						
111	4	172	15.12	9.17	-27.44	-9.23	-9.03	-18.31	-2.260e+04-1.092e+05-6.009e+04-7.171e+04-4.291e+04						
		171	19.08	5.41	-25.33	-8.19	-11.73	-15.27	-5.411e+04-1.445e+05-8.820e+04-1.104e+05-4.380e+04						
		10	22.52	2.08	-47.87	-27.61	-18.18	-24.52	3516.98-1.469e+05-1.252e+05-1.817e+04-5.284e+04						
		200	14.02	1.37	-12.54	-9.07	-2.10	-6.02	-1.369e+04-9.911e+04-6.762e+04-4.518e+04-4.121e+04						
111	5	172	20.06	23.96	-39.83	-7.29	-8.58	-31.89	1.004e+04-1.267e+05-4.951e+04-6.711e+04-6.778e+04						
		171	23.94	17.12	-36.77	-7.33	-12.32	-26.83	-3.888e+04-1.741e+05-9.247e+04-1.205e+05-6.612e+04						
		10	32.68	8.39	-67.80	-39.85	-19.56	-36.72	2.139e+04-2.042e+05-1.651e+05-1.771e+04-8.538e+04						
		200	18.23	8.52	-17.47	-8.35	-0.61	-12.41	6780.49-1.172e+05-6.353e+04-4.694e+04-6.146e+04						
112	3	193	6.64	4.94	-15.87	3.85	-14.78	4.64	2.623e+04-2.429e+04	1.318e+04-1.124e+04	2.211e+04				
		212	6.76	9.27	-18.44	7.18	-16.35	7.31	2.559e+04-2.566e+04	1.007e+04-1.014e+04	2.355e+04				
		214	9.20	8.11	-17.75	7.51	-17.15	3.91	3.036e+04-3.954e+04	1.654e+04-2.571e+04	2.784e+04				
		194	7.02	3.19	-19.33	3.17	-19.31	0.74	1.945e+04-3.327e+04	1.531e+04-2.913e+04	1.418e+04				
112	4	193	6.41	3.42	-14.23	2.70	-13.50	3.49	2.248e+04-2.630e+04	1.239e+04-1.621e+04	1.976e+04				
		212	6.29	6.86	-16.61	5.30	-15.05	5.84	1.906e+04-2.833e+04	6872.53-1.614e+04	2.072e+04				
		214	8.68	5.94	-16.16	5.49	-15.71	3.12	2.434e+04-4.114e+04	1.330e+04-3.009e+04	2.452e+04				
		194	7.00	2.09	-17.11	2.06	-17.08	0.79	1.722e+04-3.501e+04	1.427e+04-3.205e+04	1.206e+04				
112	5	193	8.13	8.42	-20.12	6.45	-18.15	7.25	3.821e+04-2.311e+04	1.645e+04	-1350.41	2.934e+04			
		212	8.69	14.76	-23.23	11.43	-19.90	10.75	4.259e+04-2.236e+04	1.739e+04	2835.75	3.165e+04			
		214	11.53	13.01	-22.00	12.03	-21.03	5.76	4.709e+04-4.071e+04	2.476e+04-1.839e+04	3.823e+04				
		194	7.98	5.61	-24.90	5.59	-24.88	0.69	2.716e+04-3.337e+04	1.940e+04-2.561e+04	2.023e+04				
113	3	197	9.30	-1.33	-5.92	-5.63	-1.62	-1.12	2.493e+04-4.549e+04-2.651e+04	5952.23-3.124e+04					
		198	11.00	0.80	-14.50	-13.77	0.06	-3.28	1.278e+04-6.563e+04-5.667e+04	3817.31-2.495e+04					
		169	7.69	1.39	-4.88	-4.66	1.18	1.15	5934.30-4.790e+04-4.787e+04	5912.34	-1087.01				
		137	4.94	-1.21	-6.72	-6.48	-1.45	1.12	-343.22-3.294e+04-3.219e+04	-1090.03	-4876.73				
113	4	197	8.80	-1.60	-6.44	-6.40	-1.63	-0.43	2.123e+04-4.495e+04-2.979e+04	6069.89-2.781e+04					
		198	10.45	0.60	-13.64	-12.99	-0.06	-2.97	1.065e+04-6.326e+04-5.629e+04	3671.68-2.161e+04					
		169	7.72	1.12	-4.43	-4.24	0.93	1.01	5361.23-4.845e+04-4.845e+04	5357.58	-443.17				
		137	5.14	-1.04	-5.93	-5.76	-1.21	0.90	4.16-3.411e+04-3.345e+04	-653.13	-4689.42				
113	5	197	11.50	-0.22	-6.06	-4.56	-1.72	-2.56	3.646e+04-5.144e+04-2.171e+04	6735.50-4.159e+04					
		198	13.44	1.28	-17.27	-16.30	0.31	-4.14	1.928e+04-7.782e+04-6.316e+04	4628.48-3.476e+04					
		169	8.43	2.02	-6.13	-5.85	1.73	1.49	8018.85-5.151e+04-5.141e+04	7920.45	-2418.32				
		137	5.00	-1.62	-8.75	-8.35	-2.01	1.62	-829.31-3.356e+04-3.243e+04	-1960.40	-5978.17				
114	3	37	20.02	13.40	-9.40	11.78	-7.78	5.86	1.083e+05-3.991e+04	9.914e+04-3.079e+04	3.561e+04				
		172	17.60	12.55	-33.06	11.23	-31.74	-7.66	-1.752e+04-1.238e+05-2.183e+04-1.195e+05-2.098e+04						
		200	14.51	5.66	-22.07	4.58	-20.98	-5.37	3086.00-9.434e+04	-1341.07-8.992e+04-2.029e+04					
		217	11.66	1.27	-15.11	0.06	-13.90	-4.28	-7830.95-8.084e+04-1.510e+04-7.358e+04-2.186e+04						
114	4	37	17.35	6.22	-7.98	4.98	-6.75	4.00	9.033e+04-3.952e+04	8.339e+04-3.257e+04	2.922e+04				

		172	16.50	8.10	-29.15	7.16	-28.22	-5.83-2.795e+04-1.202e+05-3.192e+04-1.162e+05-1.873e+04
		200	13.44	2.81	-20.26	1.66	-19.11	-5.02 -4160.18-9.090e+04 -9100.46-8.596e+04-2.010e+04
		217	11.27	0.25	-14.11	-0.62	-13.24	-3.43-1.228e+04-8.004e+04-2.037e+04-7.195e+04-2.197e+04
114	5	37	27.94	28.16	-12.96	25.76	-10.56	9.64 1.603e+05-4.226e+04 1.450e+05-2.703e+04 5.342e+04
		172	21.97	22.21	-42.97	20.04	-40.81	-11.68 3645.46-1.428e+05 -1880.14-1.373e+05-2.791e+04
		200	18.44	11.70	-27.36	10.58	-26.25	-6.50 2.004e+04-1.105e+05 1.601e+04-1.065e+05-2.259e+04
		217	13.84	3.51	-18.29	1.54	-16.32	-6.26 1531.17-9.084e+04 -4928.19-8.438e+04-2.356e+04
115	3	174	10.60	26.72	-22.38	23.39	-19.05	12.34 4.369e+04-3.618e+04 3.459e+04-2.709e+04 2.537e+04
		32	17.18	40.22	-24.65	34.44	-18.87	18.49 8.372e+04-4.440e+04 6.732e+04-2.800e+04 4.281e+04
		173	12.76	19.83	-25.46	18.78	-24.41	6.79 1.500e+04-7.534e+04 1.035e+04-7.068e+04 1.996e+04
		229	13.15	16.42	-22.11	16.08	-21.77	3.61 3.731e+04-6.166e+04 3.269e+04-5.704e+04 2.086e+04
115	4	174	9.08	19.67	-20.20	17.00	-17.54	9.95 2.387e+04-4.378e+04 5.192e+04-3.540e+04 2.228e+04
		32	14.00	31.45	-22.00	26.93	-17.48	14.88 5.248e+04-5.357e+04 3.428e+04-3.537e+04 3.999e+04
		173	12.10	13.70	-22.78	12.81	-21.90	5.61 101.80-7.963e+04 -4606.03-7.492e+04 1.879e+04
		229	12.11	11.39	-19.96	11.12	-19.69	2.88 2.442e+04-6.477e+04 2.075e+04-6.110e+04 1.772e+04
115	5	174	15.97	42.57	-28.12	37.72	-23.27	17.87 9.189e+04-2.178e+04 8.016e+04-1.004e+04 3.558e+04
		32	27.72	60.80	-31.80	52.13	-23.13	26.98 1.672e+05-2.696e+04 1.516e+05-1.142e+04 5.267e+04
		173	16.25	33.11	-32.40	31.68	-30.97	9.57 4.986e+04-7.241e+04 4.468e+04-6.723e+04 2.463e+04
		229	17.12	27.51	-27.80	26.99	-27.28	5.30 6.975e+04-6.015e+04 6.250e+04-5.290e+04 2.982e+04
116	3	196	14.40	0.54	-20.75	-19.47	-0.74	-5.07 4.554e+04-6.409e+04 5.092e+04-2.43e+04-3.557e+04
		38	13.60	8.37	-33.28	-31.97	7.07	7.26 -1388.98-9.025e+04-7.390e+04-1.774e+04 3.443e+04
		168	6.53	-0.75	-6.70	-5.36	-2.10	-2.49 2.888e+04-2.103e+04 5669.97 2182.61-2.489e+04
		139	4.68	0.16	-11.05	-10.66	-0.23	2.06 -1189.67-3.144e+04-2.685e+04 -5775.23 1.085e+04
116	4	196	13.59	-2.37	-18.25	-17.03	-3.59	-4.24 4.071e+04-6.255e+04-5.192e+04-3.007e+04-3.138e+04
		38	12.50	10.12	-27.31	-26.97	9.78	3.56 535.68-8.217e+04-6.741e+04-1.422e+04 3.166e+04
		168	5.70	-2.14	-7.54	-7.26	-2.42	-1.19 2.292e+04-2.082e+04 812.43 1287.88-2.187e+04
		139	4.68	0.75	-9.56	-9.48	0.67	0.88 -1044.19-3.140e+04-2.774e+04 -4709.67 9891.90
116	5	196	17.71	6.36	-27.11	-25.56	4.80	-7.03 6.090e+04-7.412e+04-5.418e+04 4.097e+04-4.790e+04
		38	17.12	6.67	-48.35	-43.90	2.23	15.00 -3101.81-1.140e+05-9.224e+04-2.489e+04 4.407e+04
		168	9.24	3.38	-7.00	-2.01	-1.61	-5.19 4.582e+04-2.383e+04 1.832e+04 3665.31-3.404e+04
		139	5.17	-0.49	-15.24	-13.71	-2.01	4.49 -560.66-3.423e+04-2.658e+04 -8213.31 1.411e+04
117	3	178	11.90	29.95	-22.18	-16.28	24.06	16.51 5.054e+04-3.911e+04-2.568e+04 3.712e+04 3.199e+04
		179	12.81	15.02	-26.08	-25.55	14.49	4.63 9376.08-7.914e+04-7.730e+04 7534.74 1.263e+04
		105	21.65	35.61	-35.73	-28.26	28.14	21.85 2.972e+04-1.253e+05-9.431e+04 -1245.72 6.198e+04
		26	17.82	34.91	-23.12	-12.79	24.58	22.20 8.996e+04-4.246e+04 -8133.86 5.563e+04 5.803e+04
117	4	178	10.22	22.65	-19.65	-14.73	17.73	13.56 2.980e+04-4.686e+04-3.404e+04 1.698e+04 2.861e+04
		179	12.14	9.95	-23.41	-22.98	9.52	3.76 -3044.21-8.148e+04-7.992e+04 -4604.65 1.095e+04
		105	20.15	26.46	-31.23	-24.71	19.94	18.27 8012.08-1.287e+05-9.584e+04-2.483e+04 5.840e+04
		26	14.74	26.00	-20.78	-13.08	18.29	17.36 5.904e+04-5.287e+04-1.732e+04 2.349e+04 5.210e+04
117	5	178	17.77	46.70	-28.44	-20.16	38.43	23.52 1.023e+05-2.426e+04 -7689.28 8.570e+04 4.269e+04
		179	16.02	26.04	-33.24	-32.46	25.26	6.75 3.827e+04-8.063e+04-7.795e+04 3.558e+04 1.767e+04
		105	28.39	56.09	-47.05	-37.09	46.13	30.46 8.461e+04-1.290e+05-9.852e+04 5.409e+04 7.475e+04
		26	28.28	54.87	-29.80	-13.80	38.87	33.15 1.738e+05-2.250e+04 1.385e+04 1.375e+05 7.626e+04
118	3	25	21.28	18.09	-25.67	17.99	-25.57	2.10 1.090e+05-4.986e+04 1.087e+05-4.960e+04 6428.84
		179	10.93	16.68	-20.76	15.30	-19.38	7.06 -913.38-7.242e+04 -974.97-7.236e+04 -2097.75
		178	12.86	27.41	-22.84	27.36	-22.79	-1.55 5.600e+04-4.097e+04 5.541e+04-4.039e+04 -7532.01
		243	8.54	16.27	-19.99	16.23	-19.95	1.15 1.942e+04-4.370e+04 1.620e+04-4.048e+04-1.390e+04
118	4	25	18.91	9.61	-22.66	9.61	-22.66	-0.11 9.294e+04-4.943e+04 9.250e+04-4.899e+04 7903.23
		179	10.56	12.27	-18.60	10.77	-17.10	6.63-1.342e+04-7.543e+04-1.350e+04-7.536e+04 -2141.38
		178	10.95	19.77	-20.70	19.69	-20.62	-1.88 3.467e+04-4.790e+04 3.388e+04-4.711e+04 -8046.17
		243	8.16	12.88	-18.86	12.86	-18.84	0.89 7880.15-4.924e+04 5283.36-4.665e+04-1.190e+04
118	5	25	28.52	36.46	-33.47	35.80	-32.81	6.74 1.562e+05-5.281e+04 1.561e+05-5.277e+04 3152.94
		179	13.44	26.63	-26.66	25.29	-25.32	8.34 2.659e+04-7.189e+04 2.653e+04-7.183e+04 -2366.99
		178	19.23	44.57	-28.62	44.56	-28.60	-0.96 1.098e+05-2.793e+04 1.094e+05-2.753e+04 -7467.30
		243	10.97	24.18	-23.48	24.12	-23.42	1.75 4.714e+04-3.569e+04 4.195e+04-3.051e+04-2.006e+04
119	3	178	10.44	27.53	-25.44	-4.16	6.24	-25.97 4.000e+04-3.861e+04 -5218.37 6602.91-3.886e+04
		26	19.28	49.93	-24.11	-6.34	32.16	-31.62 9.350e+04-5.024e+04 -9721.81 5.298e+04-6.467e+04
		98	23.28	35.88	-17.21	-11.11	29.79	-16.92 1.432e+05-1.920e+04 1.484e+04 1.092e+05-6.611e+04
119	4	178	9.02	20.69	-23.11	-5.72	3.30	-21.43 1.987e+04-4.636e+04-1.940e+04 -7091.44-3.254e+04
		26	15.33	41.63	-21.63	-7.15	27.15	-26.58 5.917e+04-5.672e+04-2.893e+04 3.138e+04-4.948e+04
		98	17.99	25.53	-16.00	-11.70	21.23	-12.66 1.013e+05-2.942e+04 -5209.47 7.707e+04-5.077e+04
119	5	178	15.66	43.15	-31.99	-1.34	12.50	-36.92 8.855e+04-2.341e+04 2.688e+04 3.826e+04-5.569e+04
		26	31.53	71.37	-30.43	-5.09	46.03	-44.01 1.847e+05-3.949e+04 3.637e+04 1.088e+05-1.061e+05
		98	38.24	58.23	-20.80	-10.90	48.33	-26.16 2.540e+05 2436.47 6.338e+04 1.930e+05-1.078e+05
120	3	240	11.05	26.91	-18.34	26.69	-18.12	-3.16 6.868e+04 -6990.99 6.860e+04 -6910.57 2465.64
		175	15.48	33.43	-18.69	33.12	-18.39	-3.97 9.693e+04 -8961.97 9.597e+04 -7998.46-1.005e+04
		174	11.89	28.27	-21.64	24.09	-17.46	-13.83 5.648e+04-3.231e+04 5.185e+04-2.767e+04-1.975e+04
		241	11.98	24.55	-21.54	20.33	-17.32	-13.29 6.384e+04-2.393e+04 6.168e+04-2.177e+04-1.362e+04
120	4	240	9.27	20.36	-17.08	20.14	-16.85	-2.87 4.987e+04-1.777e+04 4.982e+04-1.772e+04 1882.33
		175	12.28	25.11	-17.08	24.90	-16.87	-2.95 6.863e+04-2.020e+04 6.797e+04-1.953e+04 -7650.02
		174	9.86	21.03	-19.52	17.73	-16.21	-11.10 3.450e+04-4.001e+04 3.114e+04-3.665e+04-1.546e+04
		241	10.28	17.52	-19.15	14.48	-16.11	-10.11 4.630e+04-3.120e+04 4.431e+04-2.920e+04-1.227e+04
120	5	240	16.70	41.84	-21.91	41.60	-21.67	-3.92 1.171e+05 1.665e+04 1.169e+05 1.681e+04 3975.66
		175	24.68	52.28	-23.04	51.76	-22.52	-6.21 1.699e+05 1.599e+04 1.681e+05 1.777e+04-1.647e+04
		174	18.38	44.70	-27.28	38.53	-21.10	-20.16 1.113e+05-1.666e+04 1.034e+05 -8714.64-3.088e+04
		241	17.29	40.30	-27.67	33.41	-20.78	-20.51 1.089e+05 -8841.63 1.063e+05 -6268.00-1.721e+04
121	2	151	6.27	0.14	-7.09	0.07	-7.03	0.68 2298.49-4.040e+04 1918.37-4.002e+04 4010.61



		190	7.87	0.34	-12.88	0.34	-12.88	-0.06	6499.93-4.845e+04	5971.69-4.792e+04	5361.77
		191	7.21	0.37	-12.53	0.18	-12.34	1.56	5802.12-4.451e+04	5784.32-4.449e+04	-946.25
		162	7.13	-0.24	-9.00	-0.26	-8.99	-0.34	1187.80-4.666e+04	1085.51-4.656e+04	-2209.97
121	3	151	2.10	0.23	-22.41	0.15	-22.33	1.38	479.42-1.300e+04	420.85-1.294e+04	886.55
		190	3.18	4.82	-21.39	3.99	-20.56	4.58	1.148e+04-1.211e+04	9480.63-1.011e+04	6575.35
		191	2.62	3.82	-19.34	3.58	-19.10	-2.36	9547.25 -9854.28	9044.86 -9351.89	-3081.35
		162	2.64	0.15	-26.30	0.13	-26.28	-0.74	1449.62-1.594e+04	1449.45-1.594e+04	54.37
121	4	151	2.67	0.20	-18.53	0.13	-18.45	1.18	697.21-1.684e+04	600.99-1.674e+04	1295.33
		190	3.71	3.71	-18.71	3.14	-18.14	3.53	1.046e+04-1.705e+04	8881.31-1.548e+04	6391.03
		191	3.18	2.92	-17.04	2.80	-16.91	-1.55	8808.21-1.470e+04	8472.76-1.436e+04	-2787.97
		162	3.25	0.07	-21.87	0.05	-21.85	-0.63	1371.79-2.025e+04	1369.06-2.025e+04	-243.18
122	2	127	6.01	-0.94	-7.95	-0.96	-7.93	-0.38	4775.25-3.724e+04	4535.56-3.700e+04	3164.54
		188	7.90	0.84	-13.92	0.57	-13.65	-1.98	8640.84-4.733e+04	8595.70-4.728e+04	-1588.74
		189	7.55	-0.68	-12.13	-0.78	-12.03	-1.05	5095.08-4.717e+04	4611.15-4.669e+04	-5005.81
		160	7.39	0.59	-8.10	0.56	-8.06	-0.58	271.61-4.885e+04	-504.87-4.807e+04	-6126.67
122	3	127	3.31	2.38	-19.82	2.26	-19.70	1.62	6450.56-1.741e+04	5892.02-1.685e+04	3607.29
		188	4.32	5.13	-22.29	5.07	-22.23	1.28	1.429e+04-1.809e+04	1.252e+04-1.633e+04	-7343.49
		189	3.51	4.19	-17.31	3.98	-17.10	-2.13	1.410e+04-1.228e+04	1.074e+04 -8924.12	-8786.64
		160	2.75	-1.33	-26.45	-1.64	-26.15	-2.76	-1846.25-1.836e+04	-3090.89-1.711e+04	-4359.36
122	4	127	3.66	1.64	-16.67	1.57	-16.60	1.18	6093.07-2.017e+04	5622.91-1.970e+04	3482.10
		188	4.69	4.03	-19.58	4.01	-19.57	0.63	1.303e+04-2.195e+04	1.181e+04-2.073e+04	-6411.36
		189	3.87	3.11	-15.51	2.93	-15.33	-1.83	1.231e+04-1.678e+04	9790.19-1.426e+04	-8176.64
		160	3.36	-0.92	-21.82	-1.16	-21.58	-2.23	-1672.08-2.248e+04	-2723.18-2.143e+04	-4557.27
123	3	176	15.34	35.23	-17.60	34.74	-17.11	5.08	1.035e+05 5724.03	1.019e+05 7355.19	1.253e+04
		31	21.27	39.31	-9.49	39.30	-9.48	-0.67	1.474e+05 1.522e+04	1.468e+05 1.585e+04	9124.36
		91	25.57	39.83	-12.82	39.74	-12.73	2.22	1.622e+05-1.283e+04	1.621e+05-1.279e+04	-2393.34
		175	16.16	33.98	-19.16	32.87	-18.05	-7.60	9.934e+04-1.271e+04	9.655e+04 -9914.71-1.746e+04	
123	4	176	11.80	26.87	-16.33	26.44	-15.89	4.32	7.418e+04 -6157.69	7.274e+04 -4710.85	1.068e+04
		31	15.55	31.35	-9.66	31.29	-9.59	-1.66	1.042e+05 3563.53	1.036e+05 4196.43	7956.26
		91	19.72	29.04	-12.15	28.90	-12.01	2.40	1.166e+05-2.402e+04	1.166e+05-2.401e+04	1473.91
		175	12.97	25.55	-17.25	24.56	-16.27	-6.42	7.109e+04-2.343e+04	6.903e+04-2.137e+04	-1.380e+04
123	5	176	24.97	54.45	-21.27	53.80	-20.62	7.00	1.789e+05 3.419e+04	1.765e+05 3.651e+04	1.817e+04
		31	36.73	58.57	-9.90	58.56	-9.89	0.77	2.620e+05 4.471e+04	2.613e+05 4.545e+04	1.269e+04
		91	41.80	63.57	-14.91	63.51	-14.85	2.21	2.818e+05 1.125e+04	2.812e+05 1.180e+04	-1.222e+04
		175	25.45	53.09	-24.07	51.62	-22.60	-10.56	1.727e+05 1.087e+04	1.680e+05 1.558e+04	-2.719e+04
124	3	186	6.34	3.55	-19.51	3.55	-19.51	0.36	1.876e+04-2.896e+04	1.624e+04-2.644e+04	-1.067e+04
		209	8.26	8.63	-18.13	8.52	-18.02	-1.73	2.857e+04-3.417e+04	2.041e+04-2.601e+04	-2.110e+04
		210	6.35	8.79	-18.63	7.68	-17.53	-5.39	2.662e+04-2.139e+04	1.711e+04-1.188e+04	-1.914e+04
		187	5.84	5.14	-16.37	4.59	-15.83	-3.38	2.419e+04-2.013e+04	1.511e+04-1.105e+04	-1.789e+04
124	4	186	6.41	2.46	-17.27	2.46	-17.27	0.15	1.648e+04-3.144e+04	1.488e+04-2.985e+04	-8598.20
		209	7.87	6.37	-16.42	6.27	-16.33	-1.46	2.273e+04-3.662e+04	1.662e+04-3.051e+04	-1.804e+04
		210	6.06	6.28	-16.66	5.50	-15.88	-4.17	2.113e+04-2.475e+04	1.411e+04-1.774e+04	-1.652e+04
		187	5.73	3.56	-14.52	3.25	-14.20	-2.38	2.083e+04-2.274e+04	1.416e+04-1.607e+04	-1.569e+04
124	5	186	7.07	5.98	-25.14	5.96	-25.12	0.80	2.643e+04-2.720e+04	2.098e+04-2.175e+04	-1.620e+04
		209	10.22	13.77	-22.61	13.61	-22.45	-2.41	4.455e+04-3.294e+04	3.024e+04-1.863e+04	-3.007e+04
		210	7.94	14.44	-23.67	12.58	-21.81	-8.21	4.171e+04-1.673e+04	2.493e+04 56.34	2.644e+04
		187	7.05	8.74	-21.09	7.63	-19.98	-5.63	3.526e+04-1.737e+04	1.902e+04 -1126.58	-2.431e+04
125	2	165	7.24	-0.69	-7.81	-0.73	-7.77	0.49	812.53-4.760e+04	449.39-4.724e+04	4177.29
		193	7.33	0.22	-11.26	0.08	-11.12	-1.28	5656.25-4.543e+04	4880.02-4.466e+04	6249.46
		194	8.25	0.30	-12.71	0.02	-12.63	1.01	5112.07-5.181e+04	5112.05-5.181e+04	-38.73
		143	6.63	0.48	-5.49	0.43	-5.44	-0.55	2563.58-4.266e+04	2480.17-4.257e+04	-1940.44
125	3	165	3.24	-1.21	-20.83	-1.24	-20.80	0.71	-1497.66-2.168e+04	-2111.66-2.106e+04	3465.96
		193	6.07	2.74	-14.39	2.18	-13.83	3.05	2.188e+04-2.441e+04	7331.80 -9865.88	2.149e+04
		194	5.73	2.65	-20.20	2.57	-20.12	-1.35	9451.95-3.201e+04	5945.08-2.850e+04	1.154e+04
		143	3.93	1.37	-16.39	1.34	-16.36	-0.70	4412.24-2.317e+04	4326.14-2.308e+04	1538.63
125	4	165	3.78	-1.04	-17.46	-1.07	-17.43	0.64	-1229.90-2.520e+04	-1754.12-2.468e+04	3506.06
		193	5.79	1.98	-13.03	1.68	-12.73	2.12	1.805e+04-2.594e+04	6902.70-1.480e+04	1.913e+04
		194	5.89	2.06	-17.88	2.03	-17.85	-0.83	8123.48-3.402e+04	5747.01-3.164e+04	9720.84
		143	4.27	1.12	-13.63	1.09	-13.60	-0.65	4046.34-2.573e+04	4008.94-2.569e+04	1054.72
126	3	195	7.80	1.17	-12.16	-11.93	0.94	-1.74	1.818e+04-4.009e+04	-2.794e+04 6024.38	-2.368e+04
		196	9.70	3.16	-20.30	-20.24	3.11	-1.15	1.614e+04-5.440e+04	-4.943e+04 1.117e+04	-1.805e+04
		139	5.15	0.65	-10.16	-9.80	0.29	1.95	4466.27-3.153e+04	-3.119e+04 4132.80	3448.35
		167	5.49	-0.24	-14.56	-14.54	-0.26	-0.47	-820.98-3.654e+04	-3.528e+04 -2080.95	-6589.14
126	4	195	7.52	0.53	-11.42	-11.25	0.35	-1.45	1.506e+04-4.056e+04	-3.110e+04 5605.27	-2.090e+04
		196	9.36	2.65	-18.16	-18.07	2.56	-1.40	1.431e+04-5.336e+04	-4.971e+04 1.066e+04	-1.529e+04
		139	5.28	0.19	-8.92	-8.66	-0.07	1.50	4201.56-3.259e+04	-3.224e+04 3856.97	3543.83
		167	5.78	0.02	-12.23	-12.22	0.01	-0.36	-706.87-3.848e+04	-3.745e+04 -1737.16	-6152.82
126	5	195	9.39	2.52	-14.41	-14.05	2.16	-2.45	2.736e+04-4.388e+04	-2.403e+04 7510.60	-3.194e+04
		196	11.51	4.42	-25.86	-25.84	4.40	-0.74	2.262e+04-6.208e+04	-5.332e+04 1.386e+04	-2.579e+04
		139	5.33	1.62	-13.32	-12.71	1.01	2.96	5627.25-3.193e+04	-3.154e+04 5237.72	3804.83
		167	5.46	-0.77	-20.11	-20.08	-0.80	-0.72	-792.57-3.620e+04	-3.414e+04 -2850.96	-8284.86
127	2	233	7.91	-1.20	-12.69	-6.59	-7.30	-5.73	6487.41-4.878e+04	-1.445e+04-2.784e+04	-2.681e+04
		224	7.99	-1.76	-12.86	-6.20	-8.42	-5.43	-1.127e+04-5.759e+04	-3.187e+04-3.699e+04	-2.302e+04
		203	7.01	-3.50	-13.83	-5.70	-11.64	-4.22	2631.92-4.501e+04	-2.112e+04-2.126e+04	-2.382e+04
		192	8.08	0.58	-12.21	-4.98	-6.65	-6.34	6121.89-5.015e+04	-1.842e+04-2.560e+04	-2.790e+04
127	3	233	4.63	6.70	-19.27	-0.66	-11.91	-11.70	2.147e+04-1.306e+04	1.770e+04 -9282.97	-1.077e+04
		224	6.14	11.60	-18.65	-2.08	-4.97	-15.06	2.738e+04-1.884e+04	2.058e+04-1.204e+04	-1.636e+04

		203	6.28	9.53	-20.23	-7.28	-3.42	-14.75	2.915e+04	-1.793e+04	1.571e+04	-4488.72	-2.126e+04
		192	4.40	4.20	-19.84	-6.61	-9.03	-11.96	1.363e+04	-1.940e+04	8560.24	-1.433e+04	-1.191e+04
127	4	233	4.76	4.88	-17.06	-1.68	-10.51	-10.04	1.852e+04	-1.745e+04	1.295e+04	-1.188e+04	-1.301e+04
		224	5.90	8.65	-16.74	-2.70	-5.40	-12.62	2.101e+04	-2.367e+04	1.283e+04	-1.549e+04	-1.728e+04
		203	6.12	6.47	-17.89	-6.65	-4.76	-12.14	2.486e+04	-2.151e+04	1.016e+04	-6802.07	-2.158e+04
		192	4.68	3.35	-17.49	-5.98	-8.16	-10.36	1.177e+04	-2.302e+04	4559.57	-1.582e+04	-1.410e+04
128	3	149	3.56	3.43	-14.06	1.78	-12.41	-5.11	1.634e+04	-1.049e+04	3884.46	1968.04	-1.338e+04
		35	13.74	-7.68	-25.11	-12.75	-20.04	7.91	3.028e+04	-7.214e+04	-3.866e+04	-3193.35	4.804e+04
		233	10.30	17.83	-17.93	16.82	-16.92	-5.93	6.113e+04	-1.165e+04	5.980e+04	-1.032e+04	-9727.33
		163	3.60	-3.95	-21.95	-4.15	-21.75	-1.88	2317.57	-2.243e+04	-3889.31	-1.622e+04	1.073e+04
128	4	149	3.34	2.23	-13.46	1.17	-12.40	-3.94	1.325e+04	-1.212e+04	2510.90	-1386.38	-1.253e+04
		35	11.91	-6.34	-17.98	-7.99	-16.33	4.05	2.537e+04	-6.334e+04	-3.194e+04	-6030.91	4.242e+04
		233	9.91	11.87	-15.77	11.02	-14.93	-4.76	5.503e+04	-1.720e+04	5.335e+04	-1.552e+04	-1.090e+04
		163	3.53	-2.67	-18.60	-3.09	-18.18	-2.55	984.91	-2.271e+04	-2894.00	-1.883e+04	8767.75
128	5	149	4.48	6.33	-16.05	3.15	-12.87	-7.81	2.504e+04	-7545.25	6571.57	1.093e+04	-1.615e+04
		35	19.19	-9.41	-42.72	-23.37	-28.76	16.44	4.750e+04	-9.636e+04	-5.460e+04	5738.45	6.530e+04
		233	12.42	31.22	-23.25	29.81	-21.84	-8.64	8.078e+04	-1227.74	7.994e+04	-393.28	-8230.03
		163	4.55	-6.55	-30.18	-6.56	-30.17	-0.53	8467.29	-2.494e+04	-5532.68	-1.094e+04	1.648e+04
129	3	192	5.16	4.64	-23.88	-12.54	-6.70	-13.96	1.211e+04	-2.589e+04	-1518.17	-1.226e+04	-1.823e+04
		203	6.85	10.68	-11.57	-1.78	0.88	-1.04	3.844e+04	-1.159e+04	3.425e+04	-7407.73	-1.585e+04
		34	14.56	10.18	-39.85	-30.88	1.21	-19.19	5.175e+04	-5.857e+04	-4.492e+04	3.810e+04	-3.633e+04
		239	3.70	3.70	-20.61	-15.43	-1.48	-9.96	-1812.58	-2.499e+04	-1.065e+04	-1.615e+04	-1.126e+04
129	4	192	5.44	3.65	-21.04	-11.08	-6.31	-12.11	1.101e+04	-2.878e+04	-5133.93	-1.264e+04	-1.953e+04
		203	6.18	7.38	-10.95	-2.68	-0.89	-9.12	3.124e+04	-1.509e+04	2.570e+04	-9541.87	-1.504e+04
		34	13.64	6.36	-33.58	-24.46	-2.76	-16.77	4.955e+04	-5.410e+04	-4.113e+04	3.658e+04	-3.429e+04
		239	4.12	3.06	-17.32	-13.17	-1.09	-8.20	-2181.91	-2.801e+04	-1.412e+04	-1.607e+04	-1.288e+04
129	5	192	5.29	6.90	-30.87	-16.14	-7.83	-18.42	1.685e+04	-2.273e+04	6493.73	-1.237e+04	-1.740e+04
		203	9.48	18.09	-13.47	-3.84e-03	4.62	-15.61	5.940e+04	-6611.14	5.704e+04	-4245.89	-1.227e+04
		34	17.87	19.30	-55.34	-45.66	9.62	-25.08	6.400e+04	-7.099e+04	-5.447e+04	4.748e+04	-4.424e+04
		239	3.36	5.23	-28.45	-20.83	-2.39	-14.09	13.12	-2.187e+04	-4295.99	-1.756e+04	-8701.82
130	3	212	8.92	12.02	-21.33	9.74	-19.05	8.42	3.273e+04	-3.496e+04	1.547e+04	-1.770e+04	2.950e+04
		33	9.08	10.64	-13.63	9.15	-12.14	5.82	4.218e+04	-2.708e+04	-5744.77	2.084e+04	3.198e+04
		226	12.00	13.47	-18.61	12.91	-18.04	4.23	4.790e+04	-4.346e+04	3.796e+04	-3.351e+04	2.845e+04
		214	8.59	6.16	-17.66	5.73	-17.23	3.18	2.711e+04	-3.807e+04	1.400e+04	-2.496e+04	2.613e+04
130	4	212	8.27	8.79	-19.22	6.97	-17.41	6.89	2.521e+04	-3.724e+04	1.099e+04	-2.301e+04	2.619e+04
		33	8.02	9.50	-12.31	8.86	-11.67	3.68	3.193e+04	-2.976e+04	-9267.10	1.144e+04	2.906e+04
		226	11.14	8.57	-16.56	8.09	-16.08	3.46	3.784e+04	-4.694e+04	2.983e+04	-3.892e+04	2.841e+04
		214	8.10	4.45	-15.85	4.14	-15.54	2.49	2.144e+04	-3.941e+04	1.112e+04	-2.909e+04	2.284e+04
130	5	212	11.35	19.33	-26.74	15.95	-23.36	12.00	5.185e+04	-3.365e+04	2.540e+04	-7202.16	3.952e+04
		33	12.75	14.33	-18.00	10.28	-13.96	10.70	7.151e+04	-2.217e+04	2953.17	4.639e+04	4.150e+04
		226	15.33	24.24	-23.86	23.46	-23.08	6.07	7.444e+04	-4.053e+04	5.873e+04	-2.482e+04	3.948e+04
		214	10.78	9.99	-22.37	9.26	-21.64	4.81	4.282e+04	-3.936e+04	2.126e+04	-1.780e+04	3.615e+04
131	3	38	8.58	30.66	-4.41	13.45	12.80	17.53	5.894e+04	3761.17	5.823e+04	4470.16	-6214.58
		197	11.65	-2.20	-15.90	-5.95	-12.14	-6.11	2.928e+04	-5.849e+04	-3.672e+04	7499.71	-3.791e+04
		137	4.84	7.10	-7.60	-5.02	4.53	5.59	5971.07	-2.863e+04	-2.863e+04	5970.92	-72.03
		168	9.12	0.49	-26.91	-24.98	-1.45	-7.02	604.51	-5.960e+04	-5.249e+04	-6498.69	-1.942e+04
131	4	38	7.23	28.33	-5.03	9.64	13.66	16.56	5.011e+04	4435.11	4.896e+04	5577.11	-7131.03
		197	10.94	-3.71	-15.38	-6.64	-12.46	-5.06	2.524e+04	-5.676e+04	-3.947e+04	7940.42	-3.345e+04
		137	4.99	6.68	-6.78	-4.45	4.34	5.10	5701.60	-2.984e+04	-2.983e+04	5693.46	-538.02
		168	8.60	-0.04	-24.55	-22.83	-1.77	-6.27	-439.71	-5.671e+04	-5.060e+04	-6555.19	-1.751e+04
131	5	38	12.89	38.00	-4.31	21.75	11.95	20.58	8.767e+04	4578.18	8.740e+04	4850.42	-4748.28
		197	14.65	0.62	-18.03	-5.08	-12.33	-8.59	4.202e+04	-6.918e+04	-3.464e+04	7473.48	-5.146e+04
		137	4.96	8.40	-9.72	-6.51	5.18	6.92	7675.52	-2.822e+04	-2.820e+04	7650.35	950.25
		168	10.98	1.55	-33.33	-30.87	-0.91	-8.94	2529.16	-7.081e+04	-6.057e+04	-7710.64	-2.542e+04
132	3	199	14.35	2.95	-26.52	-14.77	-8.80	-14.43	1.508e+04	-8.635e+04	-6.369e+04	-7581.21	-4.225e+04
		170	8.00	1.00	-2.83	1.00	-2.83	5.02e-03	-1.076e+04	-5.786e+04	-5.245e+04	-1.617e+04	-1.502e+04
		1	19.86	-0.02	-49.92	-30.81	-19.12	-24.26	5.326e+04	-9.626e+04	-8.574e+04	2.75e+04	-3.824e+04
		198	10.09	9.14	-10.80	-10.77	9.11	0.80	9620.47	-6.152e+04	-5.456e+04	2656.96	-2.114e+04
132	4	199	13.19	1.22	-24.43	-14.21	-9.00	-12.56	9888.12	-8.181e+04	-6.349e+04	-8427.57	-3.666e+04
		170	7.69	-0.13	-3.04	-0.28	-2.89	0.63	-1.376e+04	-5.670e+04	-5.295e+04	-1.751e+04	-1.213e+04
		1	17.95	-1.20	-45.75	-27.04	-19.90	-21.99	4.904e+04	-8.638e+04	-7.823e+04	0.089e+04	-3.220e+04
		198	9.80	8.84	-10.61	-10.55	8.78	1.06	7742.30	-6.070e+04	-5.521e+04	2255.33	-1.859e+04
132	5	199	18.38	6.54	-32.65	-17.00	-9.10	-19.19	2.825e+04	-1.047e+05	-6.956e+04	-6913.39	-5.865e+04
		170	9.54	3.73	-3.13	3.50	-2.91	-1.23	-5593.38	-6.614e+04	-5.550e+04	-1.624e+04	-2.304e+04
		1	25.98	2.48	-62.08	-40.41	-19.20	-30.49	7.000e+04	-1.255e+05	-1.080e+05	2.53e+04	-5.577e+04
		198	11.91	10.48	-11.99	-11.99	10.47	0.36	1.519e+04	-7.028e+04	-5.899e+04	3899.06	-2.894e+04
133	3	200	17.51	1.96	-22.58	-10.86	-9.76	-12.26	1.021e+04	-1.105e+04	-1.105e+04	-2.427e+04	-5.454e+04
		10	17.96	6.71	-31.39	-29.26	4.58	-8.73	-3.337e+04	-1.319e+05	-1.318e+05	-3.343e+04	2538.58
		170	11.85	2.35	-14.38	-5.94	-6.10	-8.36	1.006e+04	-7.300e+04	-5.374e+04	-9207.25	-3.506e+04
		199	11.72	-0.47	-14.86	-10.52	-4.82	-6.60	-2584.73	-7.893e+04	-6.653e+04	-1.498e+04	-2.815e+04
133	4	200	16.21	-1.04	-20.61	-10.74	-10.90	-9.79	1957.79	-1.064e+05	-7.781e+04	-2.667e+04	-5.479e+04
		10	16.62	6.77	-28.20	-26.00	4.58	-8.48	-3.330e+04	-1.228e+05	-1.226e+05	-3.348e+04	4037.69
		170	10.71	0.09	-13.24	-6.78	-6.38	-6.66	4061.73	-6.893e+04	-5.399e+04	-1.088e+04	-2.945e+04
		199	11.08	-0.99	-13.79	-9.94	-4.84	-5.87	-5342.44	-7.600e+04	-6.624e+04	-1.510e+04	-2.437e+04
133	5	200	22.26	7.88	-28.19	-11.92	-8.38	-17.95	2.945e+04	-1.304e+05	-7.960e+04	-2.134e+04	-7.442e+04
		10	22.37	7.35	-39.89	-37.59	5.05	-10.17	-3.476e+04	-1.622e+05	-1.622e+05	-3.476e+04	-418.83
		170	15.57	6.74	-17.78	-4.97	-6.06	-12.25	2.388e+04	-8.909e+04	-5.740e+04	-7802.11	-5.075e+04

		199	14.29	0.66	-18.11	-12.36	-5.08	-8.65	3378.92-9.291e+04-7.293e+04-1.660e+04-3.904e+04
134	3	32	17.27	35.51	-26.15	-6.21	15.57	-28.84	8.090e+04-4.866e+04 3824.78 2.841e+04-6.361e+04
		84	24.69	38.12	-36.80	-21.67	22.99	-30.07	3.637e+04-1.414e+05-8.363e+04-2.139e+04-8.325e+04
		172	14.59	10.72	-30.62	-29.69	9.79	-6.14	-3.133e+04-1.080e+05-1.067e+05-3.265e+04 -9945.55
		173	14.12	23.62	-25.12	-16.97	15.47	-18.19	2.377e+04-7.855e+04-5.888e+04 4100.58-4.033e+04
134	4	32	14.46	26.09	-23.32	-7.97	10.74	-22.86	5.157e+04-5.815e+04 -7156.52 581.80-5.472e+04
		84	22.94	28.81	-32.13	-19.19	15.87	-24.92	1.320e+04-1.444e+05-8.589e+04-4.530e+04-7.614e+04
		172	14.17	6.72	-27.21	-26.42	5.93	-5.12	-3.823e+04-1.066e+05-1.054e+05-3.941e+04 -8929.45
		173	13.14	17.13	-22.25	-15.10	9.98	-15.18	7110.67-8.274e+04-6.410e+04-1.153e+04-3.644e+04
134	5	32	26.96	56.41	-33.95	-3.88	26.33	-42.58	1.594e+05-3.131e+04 3.029e+04 9.781e+04-8.918e+04
		84	32.24	59.15	-48.49	-27.87	38.53	-42.36	9.556e+04-1.473e+05-8.510e+04 3.335e+04-1.060e+05
		172	16.96	19.43	-39.63	-38.34	18.13	-8.65	-1.901e+04-1.198e+05-1.181e+05-2.071e+04-1.299e+04
		173	18.50	38.15	-32.35	-21.47	27.27	-25.47	6.403e+04-7.591e+04-5.175e+04 3.987e+04-5.289e+04
135	3	241	12.04	24.72	-20.28	13.55	-9.10	-19.44	6.615e+04-2.146e+04 5.556e+04-1.087e+04-2.856e+04
		174	12.14	27.96	-22.27	15.22	-9.54	-21.85	5.386e+04-3.749e+04 3.759e+04-2.123e+04-3.495e+04
		229	12.12	15.96	-22.74	-0.38	-6.40	-19.11	2.888e+04-6.128e+04 1986.40-3.439e+04-4.125e+04
		220	12.14	18.55	-20.20	6.23	-7.89	-18.04	5.121e+04-4.082e+04 3.632e+04-2.594e+04-3.388e+04
135	4	241	10.24	17.53	-18.14	8.75	-9.36	-15.36	4.835e+04-2.853e+04 3.883e+04-1.901e+04-2.533e+04
		174	10.33	20.68	-19.93	10.26	-9.52	-17.74	3.283e+04-4.505e+04 1.987e+04-3.209e+04-2.900e+04
		229	11.25	11.39	-20.73	-2.17	-7.18	-15.86	1.660e+04-6.438e+04 -8535.86-3.925e+04-3.746e+04
		220	10.83	13.17	-18.18	2.67	-7.68	-14.80	3.738e+04-4.488e+04 2.276e+04-3.027e+04-3.144e+04
135	5	241	17.52	40.78	-25.83	24.09	-9.15	-28.86	1.118e+05 -6310.57 9.830e+04 7204.43-3.760e+04
		174	18.21	44.42	-28.39	26.19	-10.16	-31.55	1.062e+05-2.301e+04 8.113e+04 2008.41-5.105e+04
		229	15.66	26.08	-28.20	3.15	-5.27	-26.81	5.896e+04-5.984e+04 2.576e+04-2.665e+04-5.331e+04
		220	16.53	30.55	-25.54	13.76	-8.74	-25.69	8.693e+04-3.500e+04 6.994e+04-1.801e+04-4.222e+04
136	3	210	7.04	10.23	-20.62	10.23	-20.62	-0.15	2.792e+04-2.536e+04 2.430e+04-2.174e+04-1.340e+04
		228	8.09	13.93	-19.09	13.93	-19.09	0.10	3.642e+04-2.460e+04 3.152e+04-1.970e+04-1.659e+04
		237	8.07	15.33	-19.83	15.17	-19.66	-2.42	3.994e+04-2.025e+04 3.091e+04-1.121e+04-2.150e+04
		238	6.67	12.60	-19.36	12.34	-19.10	-2.83	3.346e+04-1.614e+04 2.449e+04 -7171.17-1.909e+04
136	4	210	6.73	7.32	-17.97	7.32	-17.97	0.18	2.240e+04-2.848e+04 2.005e+04-2.613e+04-1.068e+04
		228	7.55	10.01	-17.04	10.01	-17.03	0.22	2.804e+04-2.932e+04 2.452e+04-2.579e+04-1.377e+04
		237	7.45	11.49	-17.59	11.39	-17.49	-1.64	3.065e+04-2.587e+04 2.338e+04-1.859e+04-1.893e+04
		238	6.21	8.92	-16.97	8.76	-16.81	-2.03	2.702e+04-1.988e+04 1.998e+04-1.283e+04-1.676e+04
136	5	210	8.63	16.81	-27.16	16.79	-27.14	-0.87	4.283e+04-2.135e+04 3.533e+04-1.384e+04-2.062e+04
		228	10.43	22.76	-24.34	22.75	-24.34	-0.20	5.848e+04-1.697e+04 4.941e+04 -7894.92-2.454e+04
		237	10.68	24.10	-25.55	23.74	-25.19	-4.21	6.484e+04 -9710.38 5.039e+04 4736.64-2.947e+04
		238	8.59	20.88	-25.27	20.41	-24.80	-4.63	5.104e+04 -9652.26 3.584e+04 5552.44-2.630e+04
137	3	175	15.03	34.34	-17.98	28.84	-12.48	16.06	9.520e+04 -6719.73 8.866e+04 -179.76 2.498e+04
		91	25.71	37.73	-14.60	30.79	-7.66	17.75	1.584e+05-2.092e+04 1.436e+05 -6122.82 4.934e+04
		32	17.46	43.35	-25.37	38.58	-20.60	17.47	8.421e+04-4.602e+04 7.935e+04-4.115e+04 2.470e+04
		174	10.66	27.59	-23.15	27.39	-22.95	3.18	4.976e+04-2.979e+04 4.914e+04-2.917e+04 7015.17
137	4	175	11.91	26.12	-16.43	21.36	-11.66	13.42	6.749e+04-1.823e+04 6.190e+04-1.264e+04 2.116e+04
		91	19.85	27.33	-13.55	21.69	-7.90	14.10	1.128e+05-3.107e+04 9.883e+04-1.709e+04 4.261e+04
		32	13.89	34.99	-22.83	30.48	-18.33	15.50	5.182e+04-5.317e+04 4.563e+04-4.699e+04 2.472e+04
		174	8.82	20.42	-21.05	20.26	-20.89	-2.59	2.846e+04-3.787e+04 2.777e+04-3.718e+04 6722.80
137	5	175	24.03	53.23	-22.09	45.71	-14.57	22.58	1.668e+05 1.904e+04 1.576e+05 2.822e+04 3.566e+04
		91	42.08	60.38	-17.56	50.48	-7.65	25.96	2.782e+05 -6.63 2.598e+05 1.841e+04 6.917e+04
		32	28.69	63.84	-31.99	57.82	-25.98	23.24	1.697e+05-3.319e+04 1.663e+05-2.978e+04 2.608e+04
		174	16.65	43.82	-29.13	43.54	-28.85	4.50	1.020e+05-1.284e+04 1.014e+05-1.227e+04 8085.38
138	3	219	10.45	21.11	-20.30	-9.86	10.66	17.99	5.177e+04-2.598e+04 6494.19 1.930e+04 3.834e+04
		243	12.28	19.39	-22.28	-15.91	13.02	15.00	4.942e+04-4.376e+04-1.655e+04 2.221e+04 4.237e+04
		178	12.37	27.62	-21.35	-10.26	16.54	20.49	5.432e+04-3.889e+04-1.286e+04 2.829e+04 4.181e+04
		177	12.54	30.82	-20.30	-1.50	12.02	24.65	7.882e+04 -6387.53 3.026e+04 4.217e+04 4.219e+04
138	4	219	9.34	15.69	-18.32	-10.11	7.48	14.55	3.802e+04-3.276e+04 -4754.54 1.001e+04 3.461e+04
		243	11.11	13.99	-20.39	-14.86	8.46	12.63	3.513e+04-4.889e+04-2.514e+04 1.138e+04 3.783e+04
		178	10.50	20.91	-19.45	-10.24	11.69	16.94	3.253e+04-4.653e+04-2.309e+04 9095.03 3.611e+04
		177	10.11	22.77	-18.26	-3.13	7.64	19.80	5.624e+04-1.683e+04 1.463e+04 2.479e+04 3.618e+04
138	5	219	14.38	33.43	-25.52	-9.89	17.79	26.02	8.721e+04-1.299e+04 3.212e+04 4.210e+04 4.985e+04
		243	16.59	31.50	-27.42	-18.95	23.03	20.67	8.639e+04-3.616e+04 1848.28 4.839e+04 5.668e+04
		178	18.74	42.97	-26.55	-10.94	27.36	29.01	1.088e+05-2.459e+04 9799.87 7.440e+04 5.835e+04
		177	19.57	48.98	-25.60	1.80	21.58	35.95	1.363e+05 1.734e+04 6.851e+04 8.514e+04 5.890e+04
139	3	180	11.29	7.65	-10.60	-6.92	3.97	7.33	1.277e+04-6.770e+04-2.098e+04-3.395e+04 3.971e+04
		18	23.60	3.30	-46.96	-24.05	-19.61	25.03	3.844e+04-1.330e+05-9.013e+04 -4451.41 7.426e+04
		152	16.11	11.11	-22.16	-2.64	-8.41	16.39	-2.326e+04-1.163e+05-4.986e+04-8.969e+04 4.204e+04
		179	15.13	17.74	-31.22	-3.31	-10.17	24.24	2.090e+04-8.733e+04-1.963e+04-4.680e+04 5.238e+04
139	4	180	10.71	5.85	-9.97	-7.38	3.26	5.85	5498.59-6.819e+04-2.845e+04-3.424e+04 3.673e+04
		18	21.28	0.60	-42.46	-21.11	-20.75	21.53	3.076e+04-1.227e+05-8.636e+04 -5604.64 6.527e+04
		152	15.52	6.87	-19.96	-3.96	-9.12	13.17	-3.251e+04-1.151e+05-5.497e+04-9.265e+04 3.676e+04
		179	13.93	12.56	-28.13	-5.03	-10.54	20.16	7376.76-8.781e+04-2.864e+04-5.179e+04 4.616e+04
139	5	180	13.99	12.00	-12.85	-6.50	5.65	10.84	3.009e+04-7.399e+04 -7154.11-3.675e+04 4.989e+04
		18	30.91	9.05	-59.10	-31.20	-18.85	33.51	6.130e+04-1.664e+05-1.043e+05 -785.72 1.014e+05
		152	19.31	20.18	-28.30	-0.49	-7.63	23.98	-3962.15-1.294e+05-4.174e+04-9.165e+04 5.756e+04
		179	19.65	29.23	-39.44	-0.06	-10.16	33.96	5.372e+04-9.348e+04 -627.28-3.914e+04 7.104e+04
140	3	218	10.88	6.94	-18.66	-6.96	-4.76	12.75	1.006e+04-6.626e+04-1.543e+04-4.078e+04 3.600e+04
		180	11.21	4.30	-14.79	-2.78	-7.71	9.22	1.965e+04-6.234e+04 -3216.86-3.948e+04 3.677e+04
		179	16.53	17.05	-29.46	2.79	-15.21	21.44	1.487e+04-1.007e+05-2.328e+04-6.254e+04 5.434e+04
		25	18.41	17.45	-6.64	16.36	-5.54	5.01	1.100e+05-2.137e+04 1.098e+05-2.117e+04 -5118.39

140	4	218	10.53	4.69	-16.12	-6.35	-5.08	10.39	4877.91-6.703e+04-2.037e+04-4.178e+043.432e+04
		180	10.46	1.97	-14.24	-4.12	-8.14	7.85	1.246e+04-6.214e+04-1.094e+04-3.873e+043.462e+04
		179	15.32	11.56	-26.06	0.42	-14.92	17.18	1569.83-1.003e+05-3.313e+04-6.561e+044.828e+04
		25	15.81	10.37	-5.51	9.10	-4.24	4.30	9.153e+04-2.318e+049.147e+04-2.313e+04 -2439.47
140	5	218	12.82	11.90	-24.89	-8.46	-4.53	18.29	2.241e+04-7.106e+04 -5481.53-4.317e+04 4.277e+04
		180	14.21	9.26	-17.03	-0.34	-7.43	12.66	3.801e+04-6.906e+04 1.366e+04-4.471e+04 4.488e+04
		179	21.19	29.08	-38.02	7.75	-16.68	31.25	4.574e+04-1.107e+05 -3886.66-6.112e+04 7.283e+04
		25	26.08	32.81	-9.83	31.63	-8.65	6.99	1.635e+05-1.703e+04 1.627e+05-1.623e+04-1.200e+04
141	3	146	6.00	0.98	-5.63	-5.50	0.85	0.91	75.03-3.978e+04-3.611e+04 -3593.33 1.152e+04
		154	5.83	-1.80	-7.74	-7.48	-2.06	1.22	894.97-3.820e+04-3.758e+04 271.40 4898.11
		244	10.54	1.73	-16.66	-15.10	0.17	5.12	1.434e+04-6.141e+04-4.727e+04 193.26 2.952e+04
		182	8.27	0.26	-10.49	-9.07	-1.16	3.64	9953.82-4.918e+04-3.188e+04 -7345.94 2.690e+04
141	4	146	6.10	1.05	-4.72	-4.64	0.97	0.70	141.10-4.043e+04-3.681e+04 -3482.31 1.157e+04
		154	5.91	-1.84	-7.75	-7.36	-2.23	1.48	915.48-3.871e+04-3.813e+04 332.69 4770.33
		244	10.05	1.42	-15.06	-13.37	-0.27	4.99	1.296e+04-5.906e+04-4.691e+04 816.30 2.697e+04
		182	8.12	0.09	-9.97	-8.60	-1.28	3.46	8626.14-4.896e+04-3.389e+04 -6437.92 2.531e+04
141	5	146	6.41	0.93	-7.80	-7.57	0.70	1.40	62.57-4.241e+04-3.820e+04 -4153.93 1.270e+04
		154	6.08	-1.80	-8.40	-8.29	-1.90	0.83	966.50-3.978e+04-3.909e+04 273.47 5268.63
		244	12.63	2.53	-21.04	-19.53	1.03	5.76	1.936e+04-7.214e+04-5.216e+04 -619.83 3.780e+04
		182	9.53	0.59	-12.27	-10.65	-1.03	4.28	1.428e+04-5.479e+04-3.054e+04 -9962.88 3.975e+04
142	3	23	24.37	19.61	-13.03	16.60	-10.02	9.45	1.446e+05-2.994e+04 1.007e+05 1.396e+04 7.573e+04
		183	7.26	-1.27	-11.36	-10.87	-1.77	2.19	-7771.72-5.146e+04-4.703e+04-1.220e+041.319e+04
		181	11.67	5.35	-15.24	-7.62	-2.27	9.94	2.514e+04-6.145e+04-2.797e+04 -8341.35 4.217e+04
		205	11.27	1.66	-19.85	-17.27	-0.93	6.99	1.391e+04-6.651e+04-4.872e+04 -3878.69 3.338e+04
142	4	23	21.59	11.31	-11.66	10.11	-10.46	5.11	1.286e+05-2.607e+04 8.664e+04 1.587e+04 6.876e+04
		183	7.39	-0.29	-10.56	-9.86	-0.99	2.59	-7296.36-5.213e+04-4.857e+04-1.085e+041.211e+04
		181	10.73	3.35	-14.25	-8.40	-2.51	8.29	1.947e+04-5.920e+04-3.157e+04 -8157.19 3.755e+04
		205	10.67	-0.21	-16.97	-15.07	-2.11	5.31	1.070e+04-6.463e+04-4.952e+04 -4410.78 3.016e+04
142	5	23	32.98	37.79	-17.10	30.47	-9.78	18.66	1.963e+05-3.882e+04 1.439e+05 1.356e+04 9.784e+04
		183	7.81	-3.20	-13.84	-13.61	-3.43	1.55	-9322.86-5.568e+04-4.870e+04-1.631e+041.658e+04
		181	14.97	9.82	-18.41	-6.64	-1.96	13.92	4.015e+04-7.261e+04-2.254e+04 -9915.60 5.603e+04
		205	13.56	5.47	-26.88	-22.74	1.33	10.80	2.161e+04-7.663e+04-5.141e+04 -3603.71 4.291e+04
143	3	184	7.45	5.76	-17.24	-15.39	3.91	-6.25	1125.65-4.875e+04-4.534e+04 -2286.86 1.259e+04
		23	23.54	6.87	-47.54	-46.12	5.46	8.65	9.901e+04-8.025e+04-8.009e+049.885e+04 -5360.37
		205	5.93	2.68	-2.54	0.73	-0.59	-2.52	2.035e+04-2.512e+04-2.224e+04 1.747e+04 1.108e+04
		206	11.07	3.16	-21.17	-20.38	2.37	4.33	3.125e+04-5.227e+04-4.788e+042.686e+04 1.864e+04
143	4	184	7.32	6.72	-15.48	-13.67	4.91	-6.07	-323.01-4.855e+04-4.647e+04 -2400.20 9791.08
		23	21.39	2.27	-43.53	-41.15	-0.11	10.17	9.117e+04-7.188e+04-7.152e+049.082e+04 -7644.96
		205	5.43	2.17	-3.76	0.77	-2.36	-2.52	1.460e+04-2.648e+04-2.493e+04 1.305e+04 7821.21
		206	10.24	1.27	-19.92	-18.98	0.32	4.37	2.502e+04-5.152e+04-4.850e+042.200e+04 1.491e+04
143	5	184	8.80	4.23	-21.84	-19.80	2.19	-7.00	5797.12-5.522e+04-4.763e+04 -1789.65 2.013e+04
		23	30.59	17.33	-59.42	-58.92	16.83	6.17	1.286e+05-1.040e+05-1.040e+05 1.286e+05 -206.26
		205	7.85	4.68	-1.16	0.63	2.89	-2.69	3.520e+04-2.485e+04-1.746e+042.782e+04 1.973e+04
		206	14.19	7.26	-25.15	-24.50	6.61	4.55	4.859e+04-5.940e+04-5.070e+043.989e+04 2.939e+04
144	3	208	8.75	6.49	-18.71	6.20	-18.42	2.70	2.103e+04-4.423e+04 1.842e+04-4.163e+04-1.278e+04
		218	13.69	9.80	-16.79	9.34	-16.32	3.48	4.748e+04-5.693e+04 4.622e+04-5.567e+04-1.143e+04
		25	7.57	8.61	-14.27	7.82	-13.48	4.18	1.597e+04-4.029e+04-1.278e+04-1.154e+04-2.812e+04
		207	9.98	8.77	-19.37	8.77	-19.36	-0.33	3.570e+04-4.019e+04 3.150e+04-3.599e+04-1.737e+04
144	4	208	8.09	5.18	-16.79	4.75	-16.36	3.04	1.552e+04-4.387e+04 1.405e+04-4.240e+04 -9228.71
		218	12.59	5.67	-14.92	5.20	-14.44	3.09	3.779e+04-5.780e+04 3.700e+04 3.701e+04 -8648.69
		25	6.79	9.53	-13.95	8.28	-12.70	5.27	7974.52-4.050e+04-1.608e+04-1.644e+04-2.423e+04
		207	9.12	5.51	-17.61	5.47	-17.58	-0.86	2.781e+04-4.120e+04 2.494e+04-3.834e+04-1.377e+04
144	5	208	11.19	9.66	-23.83	9.51	-23.69	2.13	3.555e+04-4.934e+04 2.937e+04-4.316e+04-2.205e+04
		218	17.61	18.71	-21.66	18.22	-21.16	4.48	7.343e+04-6.076e+04 7.055e+04-5.787e+04-1.947e+04
		25	10.37	7.71	-16.28	7.52	-16.09	2.13	3.776e+04-4.186e+04 -5284.54 1192.46-3.968e+04
		207	12.90	15.99	-24.07	15.97	-24.05	0.72	5.582e+04-4.208e+04 4.743e+04-3.369e+04-2.740e+04
145	3	209	5.98	6.23	-17.51	-13.27	1.98	9.10	1.529e+04-2.933e+04 -7641.71 -6396.39 2.230e+04
		207	10.52	9.43	-16.13	-10.66	3.95	10.49	4.303e+04-3.722e+04 6121.35 -314.22 4.000e+04
		25	8.43	8.43	-25.68	-24.63	7.38	5.89	-7223.59-5.853e+04-5.851e+04 -7242.80 -992.72
		227	12.58	16.14	-19.69	-10.81	7.27	15.46	5.537e+04-3.998e+04 2197.66 1.319e+04 4.736e+04
145	4	209	5.92	4.62	-15.60	-11.64	0.66	8.02	1.115e+04-3.214e+04-1.331e+04 -7681.36 2.146e+04
		207	9.37	5.86	-14.76	-10.55	1.65	8.30	3.365e+04-3.790e+04 -1754.04 -2492.87 3.578e+04
		25	8.34	7.87	-22.34	-20.68	6.21	6.88	-1.012e+04-5.920e+04-5.915e+04-1.017e+04 -1516.04
		227	11.49	10.56	-17.41	-10.39	3.54	12.12	4.371e+04-4.390e+04 -7462.85 7272.79 4.318e+04
145	5	209	6.96	9.99	-22.40	-17.23	4.82	11.86	2.637e+04-2.657e+04 4560.91 -4763.00 2.605e+04
		207	14.16	17.22	-19.96	-11.62	8.88	15.51	6.737e+04-3.962e+04 2.449e+04 3264.14 5.243e+04
		25	9.25	10.64	-34.22	-33.78	10.20	4.43	62.62-6.032e+04-6.031e+04 59.13 -458.69
		227	16.42	28.36	-25.44	-12.28	15.20	23.13	8.594e+04-3.545e+04 2.342e+04 2.707e+04 6.067e+04
146	3	228	7.93	13.61	-19.66	-1.79	-4.26	16.59	3.308e+04-2.692e+04 2.094e+04-1.479e+04 2.410e+04
		227	9.30	13.46	-20.26	-4.97	-1.84	16.79	3.479e+04-3.585e+04 1.389e+04-1.495e+04 3.224e+04
		219	9.94	19.71	-19.56	3.11	-2.96	19.40	4.887e+04-2.521e+04 2.908e+04 -5413.86 3.278e+04
		237	9.33	17.14	-18.79	4.70	-6.35	17.10	5.072e+04-1.746e+04 4.319e+04 -9937.36 2.137e+04
146	4	228	7.47	9.87	-17.37	-2.82	-4.68	13.59	2.496e+04-3.161e+04 1.181e+04-1.845e+04 2.390e+04
		227	8.69	9.65	-18.23	-5.43	-3.15	13.89	2.578e+04-3.978e+04 4420.32-1.841e+04 3.073e+04
		219	9.01	14.53	-17.76	0.92	-4.15	15.95	3.577e+04-3.253e+04 1.605e+04-1.281e+04 3.095e+04
		237	8.48	12.41	-16.69	1.92	-6.20	13.98	4.034e+04-2.337e+04 3.206e+04-1.509e+04 2.142e+04
146	5	228	10.07	22.06	-25.43	0.27	-3.65	23.66	5.410e+04-1.957e+04 4.293e+04 -8404.78 2.642e+04

		227	11.89	22.00	-25.53	-4.24	0.71	23.64	5.812e+04-3.077e+04	3.614e+04	-8784.13	3.835e+04	
		219	13.56	31.41	-24.36	7.77	-0.72	27.56	8.277e+04-1.139e+04	6.057e+04	1.081e+04	3.997e+04	
		237	12.52	27.83	-24.19	10.69	-7.05	24.45	7.920e+04	-5959.15	7.246e+04	777.03	2.298e+04
147	3	185	7.84	3.10	-14.14	-12.05	1.01	5.63	2.160e+04-3.751e+04	-1.692e+04	1008.89	2.816e+04	
		184	9.49	2.36	-20.19	-18.08	0.25	6.57	2.136e+04-4.914e+04	-3.404e+04	6253.10	2.892e+04	
		206	11.43	5.33	-16.76	-12.51	1.08	8.70	2.809e+04-5.750e+04	-2.768e+04	-1731.98	4.078e+04	
		208	8.67	5.20	-17.30	-11.93	-0.17	9.59	2.235e+04-4.266e+04	-1.279e+04	-7529.33	3.240e+04	
147	4	185	7.62	2.03	-12.87	-11.27	0.43	4.61	1.847e+04-3.853e+04	-2.126e+04	1208.08	2.619e+04	
		184	9.12	1.46	-18.08	-16.13	-0.50	5.87	1.890e+04-4.849e+04	-3.595e+04	6361.40	2.623e+04	
		206	10.65	3.22	-15.31	-11.78	-0.32	7.28	2.203e+04-5.679e+04	-3.153e+04	-3230.30	3.678e+04	
		208	8.13	3.68	-15.80	-11.61	-0.50	8.00	1.696e+04-4.312e+04	-1.825e+04	-7914.99	2.959e+04	
147	5	185	9.35	5.49	-17.60	-14.36	2.25	8.03	3.134e+04-3.982e+04	-5905.72	824.75	3.522e+04	
		184	11.38	4.31	-25.66	-23.09	1.74	8.39	2.978e+04-5.563e+04	-3.283e+04	6983.91	3.778e+04	
		206	14.48	9.89	-20.74	-14.78	3.93	12.12	4.461e+04-6.527e+04	-2.132e+04	661.49	5.383e+04	
		208	10.91	8.64	-21.45	-13.29	0.48	13.38	3.673e+04-4.622e+04	-1745.45	-7744.81	4.137e+04	
148	3	123	3.19	-3.61	-15.07	-3.69	-15.00	0.93	5180.04-1.814e+04	-5794.11	-7163.94-1.164e+04		
		236	10.46	14.54	-24.98	13.38	-23.82	6.66	5.233e+04-2.544e+04	5.225e+04-2.536e+04	2491.43		
		29	14.17	-11.89	-22.97	-16.21	-18.65	-5.40	1.957e+04-8.271e+04	-5.904e+04	-4101.62-4.313e+04		
		161	3.68	4.54	-16.85	2.18	-14.49	6.70	2.164e+04	-4315.96	1.273e+04	4594.91	1.232e+04
148	4	123	2.78	-2.39	-13.48	-2.64	-13.23	1.66	2441.99-1.712e+04	-5075.25	-9606.31	-9516.83	
		236	10.05	9.81	-20.64	8.70	-19.52	5.72	4.712e+04-2.859e+04	4.693e+04-2.840e+04	3802.18		
		29	12.24	-9.69	-16.58	-10.51	-15.76	-2.23	1.560e+04-7.251e+04	-5.103e+04	-5881.31-3.783e+04		
		161	3.53	2.81	-15.64	1.29	-14.12	5.07	1.824e+04	-7765.90	1.065e+04	-168.79	1.183e+04
148	5	123	4.72	-6.03	-19.35	-6.06	-19.32	-0.59	1.361e+04-2.235e+04	-7506.61	-1242.06-1.770e+04		
		236	12.53	25.23	-35.25	23.88	-33.91	8.92	6.930e+04-2.118e+04	6.929e+04-2.118e+04	-441.56		
		29	19.82	-14.75	-39.76	-28.97	-25.54	-12.39	3.352e+04-1.112e+05	-8.031e+04	2595.92-5.933e+04		
		161	4.59	8.62	-20.24	4.16	-15.79	10.43	3.167e+04	3160.24	1.806e+04	1.677e+04	1.424e+04
149	3	238	6.48	9.71	-20.28	9.65	-20.23	1.29	2.794e+04-2.122e+04	2.012e+04-1.340e+04	-1.798e+04		
		237	11.73	20.70	-20.18	20.51	-19.99	2.77	6.382e+04-2.194e+04	6.220e+04-2.032e+04	-1.167e+04		
		27	10.90	6.71	-17.57	5.83	-16.68	-4.55	4.192e+04-4.199e+04	-1.647e+04	1.640e+04-3.861e+04		
		242	6.50	12.96	-19.78	12.83	-19.64	2.12	3.385e+04-1.376e+04	3.370e+04-1.360e+04	-2715.59		
149	4	238	5.97	7.38	-17.87	7.30	-17.79	1.45	2.183e+04-2.358e+04	1.604e+04-1.779e+04	-1.515e+04		
		237	10.76	14.47	-17.61	14.28	-17.43	2.46	5.230e+04-2.837e+04	5.109e+04-2.717e+04	-9798.81		
		27	9.66	7.15	-15.41	6.97	-15.24	-1.98	3.148e+04-4.244e+04	-1.900e+04	8039.36-3.440e+04		
		242	6.25	9.20	-17.87	9.18	-17.84	0.84	2.739e+04-1.965e+04	2.731e+04-1.957e+04	-1966.47		
149	5	238	8.48	15.08	-26.30	15.05	-26.27	1.03	4.470e+04-1.812e+04	3.040e+04	-3821.39-2.634e+04		
		237	15.33	34.64	-26.57	34.43	-26.37	3.51	9.538e+04	-9915.67	9.241e+04	-6945.50-1.743e+04	
		27	15.15	7.51	-24.29	3.84	-20.62	-10.16	7.195e+04-4.325e+04	-1.097e+04	3.967e+04-5.174e+04		
		242	7.81	21.57	-24.79	21.05	-24.27	4.89	4.997e+04	-2039.36	4.951e+04	-1578.68	-4873.09
150	3	161	1.04	1.89	-15.94	1.20	-15.26	3.42	6200.22	-1157.59	4882.65	159.99	-2821.07
		29	11.71	-0.04	-34.24	-14.38	-19.90	16.88	1.771e+04-6.673e+04	-4.521e+04	-3813.85	3.680e+04	
		190	7.26	13.94	-20.14	13.76	-19.95	2.50	4.118e+04-1.089e+04	4.081e+04	-1.053e+04	-4347.39	
		151	3.28	-1.89	-24.23	-3.29	-22.83	5.40	-2888.17-2.247e+04	-8650.43-1.671e+04	8924.49		
150	4	161	1.14	1.12	-14.82	0.47	-14.16	3.15	3639.21	-4677.82	3381.20	-4419.81	-1441.96
		29	10.63	-0.29	-26.51	-9.45	-17.34	12.50	1.626e+04-6.063e+04	-3.869e+04	-5675.41	3.472e+04	
		190	7.22	9.76	-17.86	9.58	-17.68	2.23	3.686e+04-1.663e+04	3.670e+04-1.647e+04	-2943.43		
		151	3.53	-1.24	-19.74	-2.23	-18.75	4.16	-2805.23-2.422e+04	-7358.04-1.967e+04	8761.96		
150	5	161	2.30	3.60	-18.95	2.82	-18.18	4.11	1.619e+04	3138.41	8103.88	1.123e+04	-6337.08
		29	15.29	1.07	-52.62	-25.42	-26.13	26.85	2.590e+04-8.501e+04	-6.187e+04	2767.58	4.506e+04	
		190	8.42	23.39	-25.79	23.18	-25.58	3.18	5.492e+04	-221.19	5.381e+04	893.37	-7759.99
		151	3.28	-3.33	-34.73	-5.67	-32.39	8.25	-1639.46-2.188e+04	-1.190e+04	-1.162e+04	1.012e+04	
151	2	190	7.88	-1.15	-12.38	-1.17	-12.37	0.34	9480.24-4.676e+04	8615.14-4.589e+04	6921.13		
		211	7.45	-0.91	-13.34	-1.10	-13.15	1.55	-6157.37-5.205e+04	-6248.56-5.196e+04	2043.84		
		213	7.31	-0.52	-13.72	-1.62	-13.62	1.12	-3130.64-4.979e+04	-3515.85-4.940e+04	4221.89		
		191	7.83	-0.83	-12.52	-1.09	-12.26	1.71	8001.95-4.733e+04	7969.27-4.730e+04	1344.13		
151	3	190	3.83	6.46	-20.42	5.66	-19.62	4.57	1.786e+04-1.043e+04	1.670e+04	-9265.28	5613.65	
		211	3.55	10.41	-19.26	9.53	-18.37	5.05	2.011e+04	-4923.78	2.011e+04	-4923.77	18.13
		213	3.92	9.71	-19.00	9.71	-19.00	-0.07	2.126e+04	-6916.61	1.995e+04	-5601.07	5944.94
		191	3.69	5.77	-20.77	5.74	-20.75	-0.82	1.570e+04-1.172e+04	1.570e+04-1.172e+04	222.54		
151	4	190	4.26	4.76	-17.90	4.17	-17.31	3.60	1.647e+04-1.555e+04	1.539e+04-1.447e+04	5781.72		
		211	3.75	7.88	-17.24	7.16	-16.53	4.19	1.624e+04-1.172e+04	1.623e+04-1.172e+04	411.82		
		213	4.09	7.40	-17.10	7.40	-17.10	0.15	1.756e+04-1.303e+04	1.650e+04-1.197e+04	5602.57		
		191	4.16	4.25	-18.18	4.24	-18.17	-0.33	1.447e+04-1.677e+04	1.447e+04-1.677e+04	354.52		
152	3	29	19.76	37.38	-23.56	21.63	-7.81	26.67	1.290e+05	-2074.95	8.981e+04	3.716e+04	6.004e+04
		201	5.16	7.59	-22.62	4.18	-19.21	9.57	1.269e+04-2.580e+04	1.087e+04-2.397e+04	-8182.82		
		211	7.59	21.09	-20.52	11.59	-11.02	17.46	4.878e+04	-1524.11	3.531e+04	1.194e+04	2.227e+04
		190	5.12	-8.44	-19.13	-10.52	-17.05	4.22	-9689.32-3.779e+04	-3.051e+04	-1.696e+04	-1.231e+04	
152	4	29	18.26	24.78	-20.14	13.79	-9.15	19.31	1.183e+05	-4358.89	8.206e+04	3.191e+04	5.598e+04
		201	4.69	5.77	-18.96	2.28	-15.47	8.62	6365.21-2.721e+04	5634.10-2.648e+04	-4900.52		
		211	7.07	14.73	-18.07	7.80	-11.14	13.38	4.204e+04	-7598.25	2.979e+04	4648.72	2.140e+04
		190	4.46	-5.02	-17.00	-7.02	-15.01	4.47	-1.511e+04-3.413e+04	-2.764e+04	-1.61e+04	-9017.89	
152	5	29	25.02	65.70	-31.80	39.15	-5.25	43.40	1.670e+05	5942.06	1.179e+05	5.507e+04	7.416e+04
		201	7.08	11.97	-31.55	8.38	-27.96	11.97	2.791e+04-2.608e+04	2.212e+04-2.029e+04	-1.671e+04		
		211	9.61	35.51	-26.64	20.09	-11.21	26.85	6.796e+04	1.270e+04	5.102e+04	2.963e+04	2.548e+04
		190	7.61	-15.93	-24.53	-18.37	-22.08	3.88	1381.88-4.993e+04	-3.938e+04	-9168.96-2.074e+04		
153	3	232	9.85	24.67	-19.51	10.33	-5.16	20.69	6.407e+04	-888.61	4.964e+04	1.354e+04	2.700e+04
		177	12.40	30.24	-19.77	9.03	1.44	24.71	7.854e+04	-5288.11	4.962e+04	2.363e+04	3.985e+04

		176	15.22	34.52	-17.44	23.85	-6.76	20.99	1.013e+05	2612.25	8.132e+04	2.262e+04	3.968e+04
		222	9.69	26.56	-19.75	19.73	-12.91	16.42	6.525e+04	3863.03	5.569e+04	1.343e+04	2.226e+04
153	4	232	8.48	18.67	-17.87	7.13	-6.33	16.98	4.901e+04	1.129e+04	3.532e+04	2400.75	2.526e+04
		177	10.01	22.25	-17.74	5.46	-0.95	19.74	5.615e+04	-1.599e+04	3.172e+04	8436.39	3.414e+04
		176	11.90	26.44	-16.08	17.58	-7.23	17.27	7.291e+04	-9631.99	5.638e+04	6889.40	3.303e+04
		222	8.19	19.78	-17.95	13.85	-12.02	13.72	4.974e+04	-7052.21	4.047e+04	2211.76	2.098e+04
153	5	232	14.42	38.41	-23.89	17.45	-2.94	29.44	1.039e+05	2.255e+04	8.680e+04	3.966e+04	3.315e+04
		177	19.36	48.20	-24.99	16.83	6.38	36.22	1.356e+05	1.907e+04	9.462e+04	6.007e+04	5.565e+04
		176	24.53	53.12	-21.16	38.05	-6.09	29.87	1.749e+05	3.116e+04	1.453e+05	6.074e+04	5.809e+04
		222	14.41	41.99	-24.52	32.91	-15.44	22.84	1.056e+05	2.908e+04	9.433e+04	4.038e+04	2.716e+04
154	3	194	5.50	1.10	-16.27	-0.33	-14.85	-4.76	-4986.95	-3.887e+04	-1.666e+04	-2.719e+04	1.610e+04
		214	9.29	6.71	-21.88	6.61	-21.77	1.72	3.324e+04	-3.738e+04	2.819e+04	-3.233e+04	2.1819e+04
		204	6.37	5.94	-7.57	5.06	-6.69	-3.34	2.812e+04	-2.052e+04	2.375e+04	-1.615e+04	1.391e+04
		36	21.20	13.24	-38.31	13.24	-38.31	-0.39	9.865e+04	-6.146e+04	9.821e+04	-6.102e+04	-8393.58
154	4	194	5.35	3.09	-14.67	1.66	-13.24	-4.83	-7565.46	-3.874e+04	-1.518e+04	-3.113e+04	1.339e+04
		214	8.77	4.27	-20.22	4.09	-20.04	2.12	2.762e+04	-3.879e+04	2.399e+04	-3.516e+04	1.510e+04
		204	5.72	3.58	-6.67	2.51	-5.59	-3.13	2.149e+04	-2.241e+04	1.879e+04	-1.970e+04	1.056e+04
		36	19.46	6.37	-33.95	6.24	-33.81	2.31	9.104e+04	-5.620e+04	9.037e+04	-5.553e+04	-9887.63
154	5	194	6.96	-2.91	-20.41	-4.39	-18.93	-4.87	2034.32	-4.525e+04	-2.134e+04	-2.188e+04	2.364e+04
		214	11.60	12.15	-26.54	12.12	-26.52	0.99	4.963e+04	-3.843e+04	4.006e+04	-2.886e+04	2.741e+04
		204	8.61	11.28	-10.12	10.53	-9.37	-3.94	4.560e+04	-1.849e+04	3.591e+04	-8804.50	2.295e+04
		36	27.09	28.65	-49.95	28.20	-49.50	-5.96	1.274e+05	-7.647e+04	1.273e+05	-7.633e+04	-5378.61
155	3	198	13.81	-2.32	-13.23	-10.79	-4.76	-4.54	3.484e+04	-6.921e+04	-5.059e+04	1.621e+04	-3.988e+04
		1	17.25	8.99	-29.34	-29.34	8.99	0.14	1.766e+04	-1.041e+05	-9.632e+04	9864.23	2.980e+04
		135	2.93	-0.10	-4.29	-1.00	-3.39	-1.72	1529.76	-1.862e+04	-1.191e+04	-5176.38	-9494.29
		169	8.21	0.96	-6.98	-6.57	0.54	1.77	-2524.19	-5.570e+04	-5.494e+04	-3282.19	6303.22
155	4	198	12.87	-4.09	-12.21	-10.51	-5.78	-3.30	2.983e+04	-6.664e+04	-5.164e+04	1.483e+04	-3.496e+04
		1	15.98	9.48	-25.45	-25.34	9.37	-2.02	1.799e+04	-9.550e+04	-8.791e+04	1.041e+04	2.834e+04
		135	2.82	-1.76	-4.11	-2.61	-3.25	-1.13	-703.48	-1.907e+04	-1.459e+04	-5181.02	-7885.68
		169	8.14	1.04	-5.83	-5.66	0.88	1.05	-1840.06	-5.497e+04	-5.433e+04	-2479.25	5792.57
155	5	198	17.40	0.87	-16.22	-12.15	-3.20	-7.28	4.943e+04	-8.254e+04	-5.383e+04	2.073e+04	-5.444e+04
		1	21.54	9.39	-39.61	-39.24	9.02	4.23	2.080e+04	-1.306e+05	-1.215e+05	1.164e+04	3.610e+04
		135	3.78	3.21	-5.16	1.98	-3.92	-2.97	7672.98	-2.026e+04	-6318.40	-6269.75	-1.397e+04
		169	9.16	1.04	-9.89	-8.79	-0.06	3.28	-3746.85	-6.251e+04	-6.139e+04	-4866.00	8032.07
156	3	216	11.33	4.29	-22.75	-7.99	-10.47	-13.46	2.497e+04	-5.904e+04	-1.110e+04	-2.297e+04	-4.158e+04
		245	9.04	1.49	-1.36	-0.66	0.78	-1.23	2.037e+04	-4.736e+04	300.46	-2.729e+04	3.093e+04
		38	17.92	1.49	-40.82	-21.55	-17.78	-21.07	4.974e+04	-8.532e+04	-5.213e+04	1.656e+04	-5.814e+04
		196	10.47	6.99	-17.24	-13.93	3.67	-8.32	1.882e+04	-5.783e+04	-2.709e+04	-1.192e+04	-3.757e+04
156	4	216	10.41	2.66	-21.19	-8.08	-10.45	-11.87	1.961e+04	-5.674e+04	-1.556e+04	-2.158e+04	-3.806e+04
		245	8.30	0.55	-2.25	-2.20	0.50	-0.37	1.299e+04	-4.766e+04	-7062.62	-2.761e+04	-2.853e+04
		38	16.34	-0.09	-37.14	-18.10	-19.13	-18.52	4.637e+04	-7.703e+04	-4.862e+04	1.795e+04	-5.195e+04
		196	10.05	6.33	-15.53	-12.79	3.59	-7.25	1.630e+04	-5.678e+04	-2.963e+04	-1.085e+04	-3.532e+04
156	5	216	14.57	7.81	-27.36	-8.33	-11.22	-17.53	3.979e+04	-6.980e+04	-1381.98	-2.863e+04	-5.307e+04
		245	11.90	4.94	-1.27	2.32	1.36	-3.07	3.882e+04	-5.228e+04	1.705e+04	-3.051e+04	-3.884e+04
		38	23.07	5.26	-51.33	-29.77	-16.30	-27.48	6.396e+04	-1.097e+05	-6.207e+04	1.636e+04	-7.746e+04
		196	12.59	8.76	-21.76	-17.09	4.09	-10.99	2.701e+04	-6.633e+04	-2.415e+04	-1.517e+04	-4.645e+04
157	3	229	12.13	16.10	-20.67	15.94	-20.51	2.40	1.529e+04	-7.128e+04	4879.46	-6.087e+04	2.816e+04
		173	13.20	21.15	-27.90	19.62	-26.36	8.54	2.619e+04	-7.048e+04	2.252e+04	-6.681e+04	1.847e+04
		172	12.75	11.47	-19.51	11.32	-19.35	-2.18	1.635e+04	-9.129e+04	-1.844e+04	-8.920e+04	1.234e+04
		37	21.09	9.08	-31.80	8.06	-30.77	6.39	8.013e+04	-8.092e+04	8.008e+04	-8.087e+04	2725.20
157	4	229	11.48	12.87	-18.97	12.81	-18.91	1.36	3964.89	-7.377e+04	-4659.97	-6.515e+04	2.441e+04
		173	12.10	14.94	-25.51	13.39	-23.95	7.77	9852.22	-7.412e+04	6140.36	-7.041e+04	1.726e+04
		172	12.35	7.39	-17.17	7.17	-16.94	-2.34	-2.694e+04	-9.188e+04	-2.894e+04	-8.988e+04	1.122e+04
		37	18.85	3.86	-29.47	2.13	-27.74	7.40	6.736e+04	-7.663e+04	6.736e+04	-6.863e+04	204.00
157	5	229	15.28	23.75	-25.47	23.31	-25.03	4.64	4.189e+04	-7.299e+04	2.629e+04	-5.739e+04	3.936e+04
		173	17.73	34.98	-34.59	33.31	-32.92	10.67	6.647e+04	-6.770e+04	6.235e+04	-6.358e+04	2.314e+04
		172	15.27	20.39	-25.73	20.31	-25.65	-1.99	5377.00	-9.784e+04	2756.65	-9.522e+04	1.624e+04
		37	28.06	20.56	-39.01	20.18	-38.63	4.77	1.179e+05	-9.578e+04	1.175e+05	-9.538e+04	9329.97
158	3	217	12.59	3.03	-13.78	-0.99	-9.77	-7.17	1.664e+04	-7.383e+04	-4677.74	-5.251e+04	-3.840e+04
		200	15.60	3.27	-20.40	-4.54	-12.60	-11.13	-2584.81	-1.045e+05	-4.148e+04	-6.565e+04	-4.953e+04
		199	12.91	0.66	-16.27	-4.72	-10.90	-7.88	9477.36	-8.039e+04	-3.061e+04	-4.031e+04	-4.467e+04
		215	12.08	1.62	-14.49	-6.24	-6.62	-8.05	1.729e+04	-7.001e+04	-1.117e+04	-4.155e+04	-4.092e+04
158	4	217	11.70	0.89	-12.84	-2.60	-9.35	-5.98	9404.47	-7.245e+04	-1.197e+04	-5.108e+04	-3.596e+04
		200	14.57	1.02	-18.48	-5.56	-11.90	-9.22	-9051.80	-1.007e+05	-4.627e+04	-6.353e+04	-4.503e+04
		199	12.04	-0.75	-15.06	-5.40	-10.40	-6.70	4792.85	-7.730e+04	-3.447e+04	-3.804e+04	-4.101e+04
		215	11.24	-0.26	-13.05	-6.88	-6.43	-6.39	1.200e+04	-6.781e+04	-1.633e+04	-3.947e+04	-3.819e+04
158	5	217	15.99	7.49	-16.79	2.08	-11.38	-10.10	3.485e+04	-8.406e+04	1.145e+04	-6.066e+04	-4.727e+04
		200	19.54	7.93	-25.70	-2.85	-14.91	-15.70	1.189e+04	-1.229e+05	-3.473e+04	-7.629e+04	-6.412e+04
		199	16.18	3.47	-19.94	-3.72	-12.75	-10.80	2.062e+04	-9.534e+04	-2.503e+04	-4.969e+04	-5.665e+04
		215	15.19	5.49	-18.40	-5.39	-7.51	-11.90	3.049e+04	-8.185e+04	-775.00	-5.059e+04	-5.035e+04
159	2	163	6.57	-1.27	-9.87	-2.14	-9.00	-2.60	5209.14	-4.069e+04	5015.07	-4.049e+04	-2978.17
		233	7.61	-0.37	-12.00	-1.48	-10.89	-3.41	7059.31	-4.642e+04	5323.26	-4.469e+04	-9478.10
		192	8.13	-0.28	-13.14	-1.11	-12.31	-3.17	6251.56	-5.037e+04	2866.22	-4.699e+04	-1.342e+04
		147	6.67	0.91	-5.76	0.64	-5.49	-1.32	1050.74	-4.370e+04	-2682.02	-3.996e+04	-1.237e+04
159	3	163	3.19	1.14	-22.98	0.81	-22.66	-2.78	7368.40	-1.591e+04	6915.65	-1.546e+04	3214.94
		233	4.13	5.38	-16.95	5.23	-16.80	-1.83	1.895e+04	-1.203e+04	1.704e+04	-1.012e+04	7451.55
		192	4.37	4.50	-20.69	2.60	-18.78	-6.65	1.416e+04	-1.869e+04	1.410e+04	-1.864e+04	1341.41

		147	2.52	-0.41	-21.63	-2.18	-19.87	-5.86	-1062.82-1.659e+04	-2428.57-1.522e+04	-4397.48
159	4	163	3.59	0.60	-19.40	0.26	-19.05	-2.60	6729.68-1.924e+04	6533.76-1.904e+04	2247.07
		233	4.21	3.99	-15.13	3.78	-14.91	-2.02	1.600e+04-1.582e+04	1.521e+04-1.502e+04	4978.31
		192	4.69	3.42	-18.30	1.81	-16.69	-5.68	1.238e+04-2.258e+04	1.236e+04-2.256e+04	-818.78
		147	3.08	-0.17	-17.69	-1.57	-16.29	-4.75	-786.07-2.032e+04	-2466.43-1.864e+04	-5477.85
160	2	211	7.32	-2.05	-13.10	-2.18	-12.97	-1.19	-6210.49-5.121e+04	-6322.63-5.110e+04	-2243.56
		225	8.38	-2.12	-12.87	-2.30	-12.69	-1.39	-1.693e+04-6.197e+04	-1.766e+04-6.124e+04	-5673.58
		234	6.45	1.20	-13.88	1.17	-13.84	-0.76	-1.850e+04-4.870e+04	-1.964e+04-4.756e+04	-5758.67
		213	7.24	-0.67	-13.75	-0.67	-13.75	0.02	-3882.39-4.966e+04	-4436.68-4.910e+04	-5006.38
160	3	211	4.19	12.45	-20.02	12.34	-19.91	1.91	2.428e+04	-4943.66-2.428e+04	462.56
		225	6.29	18.02	-20.99	17.91	-20.88	-2.10	3.780e+04	-5730.75-3.634e+04	-4274.14
		234	3.04	12.39	-19.57	11.51	-18.69	-5.24	1.955e+04	39.07-1.922e+04	368.56
		213	3.80	9.78	-19.08	8.68	-17.99	-5.51	2.139e+04	-5489.29-2.126e+04	-5357.82
160	4	211	4.25	9.22	-17.74	9.16	-17.68	1.28	1.982e+04-1.164e+04	1.982e+04-1.164e+04	132.36
		225	5.90	13.47	-18.48	13.41	-18.42	-1.35	2.959e+04-1.390e+04	2.829e+04-1.260e+04	-7417.80
		234	2.91	9.81	-17.58	9.17	-16.94	-4.16	1.395e+04	-7234.19-1.351e+04	-6800.95
		213	3.97	7.37	-17.11	6.60	-16.35	-4.27	1.768e+04-1.189e+04	1.749e+04-1.170e+04	-2378.92
161	3	235	5.63	0.15	-7.67	-7.27	-0.24	-1.71	1.979e+04-2.342e+04	1981.38	-5617.62-2.127e+04
		195	8.95	1.06	-14.31	-12.53	-0.72	-4.91	1.987e+04-4.673e+04	-2.542e+04	-1437.57-3.106e+04
		167	4.74	0.01	-13.21	-13.05	-0.15	-1.43	-492.67-3.142e+04	-2.937e+04	-2543.04
		141	3.48	0.16	-14.80	-14.16	-0.49	-3.03	570.83-2.240e+04	-2.025e+04	-1575.99
161	4	235	5.41	0.27	-7.56	-7.37	0.08	-1.19	1.675e+04-2.455e+04	-3223.34	-4584.75-2.064e+04
		195	8.59	0.43	-13.07	-11.65	-0.99	-4.14	1.679e+04-4.657e+04	-2.874e+04	-1043.24-2.849e+04
		167	5.13	0.17	-11.17	-11.03	0.03	-1.25	-353.92-3.404e+04	-3.212e+04	-2268.22
		141	3.73	-0.08	-12.87	-12.33	-0.62	-2.57	478.69-2.423e+04	-2.199e+04	-1764.84
161	5	235	7.07	0.16	-8.61	-7.52	-0.93	-2.88	3.033e+04-2.388e+04	1.431e+04	-7864.45-2.473e+04
		195	10.80	2.42	-17.70	-15.08	-0.20	-6.78	2.911e+04-5.236e+04	-2.093e+04	-2330.81-3.966e+04
		167	4.39	-0.33	-18.12	-17.91	-0.53	-1.89	-551.85-2.899e+04	-2.640e+04	-3135.07
		141	3.15	0.66	-19.55	-18.66	-0.23	-4.14	745.14-1.997e+04	-1.780e+04	-1426.56
162	3	208	9.78	7.75	-18.35	-9.92	-0.68	12.20	2.756e+04-4.613e+04	-4812.64-1.375e+04	3.657e+04
		206	10.27	3.05	-15.07	-10.27	-1.75	8.00	2.442e+04-5.235e+04	-1.777e+04	-1.016e+04
		180	13.22	5.36	-17.65	-12.83	0.54	9.36	2.090e+04-7.512e+04	-4.170e+04	-1.252e+04
		218	10.58	7.13	-14.78	-8.56	0.91	9.89	3.124e+04-4.896e+04	-1772.76-1.594e+04	3.947e+04
162	4	208	9.12	5.51	-16.55	-9.95	-1.09	10.10	2.169e+04-4.632e+04	-1.068e+04	-1.395e+04
		206	9.59	1.33	-13.85	-9.74	-2.78	6.75	1.859e+04-5.211e+04	-2.261e+04	-1.090e+04
		180	12.31	2.71	-15.92	-11.95	-1.26	7.62	1.313e+04-7.411e+04	-4.596e+04	-1.502e+04
		218	9.79	4.72	-13.51	-8.72	-0.07	8.02	3.320e+04-4.999e+04	-9031.65-1.777e+04	3.633e+04
162	5	208	12.34	12.80	-23.15	-10.43	0.08	17.19	4.334e+04-5.054e+04	7980.13-1.518e+04	4.549e+04
		206	12.96	6.70	-18.52	-11.99	0.17	11.05	3.997e+04-5.847e+04	-8185.19-1.031e+04	4.921e+04
		180	16.73	11.04	-22.30	-15.39	4.14	13.51	4.007e+04-8.499e+04	-3.615e+04	-8777.23
		218	13.63	12.47	-18.41	-8.78	2.85	14.31	5.267e+04-5.144e+04	1.507e+04	1.384e+04
163	3	227	10.21	13.15	-16.78	-9.78	6.15	12.67	3.923e+04-3.860e+04	7294.92	-6665.35
		25	17.78	15.67	-34.35	-27.18	8.50	17.54	5.634e+04-7.828e+04	-5.982e+04	3.788e+04
		243	12.83	19.91	-19.33	-5.37	5.96	18.79	5.483e+04-4.249e+04	1.617e+04	-3832.39
		219	10.90	20.41	-20.81	-5.34	4.93	19.96	5.449e+04-2.656e+04	1.639e+04	1.154e+04
163	4	227	9.46	9.60	-14.73	-9.43	4.30	10.04	2.893e+04-4.279e+04	-2981.02-1.088e+04	3.564e+04
		25	16.25	10.84	-30.25	-23.14	3.72	15.55	4.678e+04-7.580e+04	-6.015e+04	3.114e+04
		243	11.48	14.70	-17.95	-6.56	3.31	15.56	3.905e+04-4.822e+04	3505.84-1.268e+04	4.288e+04
		219	9.76	15.09	-19.02	-6.31	2.38	16.49	4.073e+04-3.322e+04	4439.63	3069.14
163	5	227	13.26	21.20	-22.01	-11.05	10.24	18.80	6.562e+04-3.376e+04	3.030e+04	1569.15
		25	22.89	26.58	-44.62	-36.61	18.57	22.50	8.484e+04-8.903e+04	-6.248e+04	5.828e+04
		243	17.63	31.68	-23.33	-3.39	11.73	26.45	9.542e+04-3.394e+04	4.631e+04	1.517e+04
		219	14.95	32.42	-25.61	-3.60	10.40	28.16	9.045e+04-1.398e+04	4.457e+04	3.190e+04
164	3	24	19.13	17.79	-12.44	-4.29	9.64	13.41	1.185e+05-1.505e+04	3.001e+04	7.344e+04
		185	5.25	-1.26	-16.29	-15.26	-2.29	-3.80	-5530.51-3.699e+04	-3.688e+04	-5645.93
		208	11.38	10.06	-15.78	-14.51	8.78	5.60	4.962e+04-3.692e+04	-2.166e+04	3.436e+04
		207	7.76	7.57	-24.19	-24.19	7.57	-0.34	9573.29-4.540e+04	-4.338e+04	7559.36
164	4	24	17.07	10.32	-10.44	-4.63	4.51	9.32	1.055e+05-1.419e+04	2.313e+04	6.816e+04
		185	5.57	-0.18	-14.70	-13.95	-0.92	-3.20	-5419.61-3.910e+04	-3.910e+04	-5419.83
		208	10.24	6.61	-14.46	-13.74	5.89	3.82	4.111e+04-3.705e+04	-2.535e+04	2.940e+04
		207	7.52	5.45	-20.87	-20.87	5.45	0.06	5253.65-4.652e+04	-4.520e+04	3931.60
164	5	24	25.65	33.99	-17.20	-3.88	20.67	22.46	1.608e+05-1.641e+04	5.064e+04	9.374e+04
		185	5.29	-3.42	-20.59	-18.80	-5.20	-5.23	-5442.13-3.726e+04	-3.600e+04	-6695.54
		208	15.13	17.79	-19.57	-16.94	15.16	9.55	7.355e+04-4.022e+04	-1.486e+04	4.819e+04
		207	8.96	12.36	-32.35	-32.32	12.33	-1.15	1.888e+04-4.684e+04	-4.278e+04	1.482e+04
165	3	24	15.41	10.41	-31.22	10.38	-31.18	-1.17	6.999e+04-4.652e+04	6.992e+04	4.645e+04
		207	6.42	6.50	-11.09	6.39	-10.98	1.39	2.144e+04-2.760e+04	1.164e+04	1.780e+04
		209	8.59	8.44	-20.48	7.87	-19.90	-4.04	3.486e+04-3.034e+04	2.740e+04	-2.288e+04
		186	5.77	1.86	-17.06	1.85	-17.05	0.46	5756.99-3.499e+04	-6360.03-2.287e+04	-1.863e+04
165	4	24	14.33	5.50	-27.36	5.25	-27.11	-2.86	6.491e+04-4.365e+04	6.490e+04	4.364e+04
		207	5.90	4.56	-10.00	4.41	-9.84	1.50	1.450e+04-2.980e+04	7266.88-2.256e+04	-1.637e+04
		209	8.12	5.64	-18.84	4.96	-18.16	-4.03	2.902e+04-3.269e+04	2.337e+04	-2.704e+04
		186	5.73	2.58	-15.35	2.55	-15.32	0.73	3183.23-3.617e+04	-5619.94-2.737e+04	-1.640e+04
165	5	24	19.26	21.51	-41.23	21.42	-41.15	2.29	8.982e+04-5.505e+04	8.941e+04	5.464e+04
		207	8.51	10.89	-14.03	10.83	-13.97	1.19	3.879e+04-2.602e+04	2.097e+04	-8204.56
		209	10.66	14.73	-25.01	14.26	-24.54	-4.30	5.156e+04-2.836e+04	3.861e+04	-1.541e+04
		186	6.95	0.51	-21.48	0.51	-21.48	-0.07	1.352e+04-3.785e+04	-8476.02-1.585e+04	-2.542e+04

166	3	242	7.80	13.05	-16.45	13.02	-16.42	0.97	4.346e+04	-1.335e+04	3.666e+04	-6548.20	-1.845e+04
		27	7.29	9.14	-25.17	4.74	-20.78	11.47	1.767e+04	-3.671e+04	-1.500e+04	-4041.32	2.663e+04
		230	10.71	23.00	-21.57	23.00	-21.57	5.66e-03	6.203e+04	-1.422e+04	6.107e+04	1.327e+04	-8471.59
		201	3.23	9.50	-20.28	9.47	-20.25	-0.88	1.583e+04	-7644.60	1.566e+04	-7470.17	-2016.15
166	4	242	7.07	9.30	-15.30	9.24	-15.25	1.15	3.475e+04	-1.822e+04	2.987e+04	-1.334e+04	-1.532e+04
		27	6.96	8.38	-21.24	5.88	-18.74	8.23	1.129e+04	-3.927e+04	-1.803e+04	-9946.52	2.496e+04
		230	9.81	16.25	-18.90	16.25	-18.90	-0.04	5.054e+04	-2.198e+04	4.992e+04	-2.136e+04	-6708.81
		201	3.53	7.30	-17.82	7.28	-17.80	-0.72	1.297e+04	-1.337e+04	1.291e+04	-1.331e+04	-1213.76
166	5	242	10.46	21.51	-19.69	21.50	-19.68	0.68	6.649e+04	-4838.97	5.377e+04	7875.46	-2.730e+04
		27	9.06	11.92	-35.12	2.79	-25.98	18.60	3.598e+04	-3.284e+04	-8458.13	1.160e+04	3.292e+04
		230	14.03	38.14	-28.15	38.14	-28.15	0.10	9.250e+04	1334.86	9.067e+04	3165.85	-1.279e+04
		201	3.35	14.60	-26.33	14.56	-26.29	-1.31	2.349e+04	4470.25	2.272e+04	5239.17	-3745.71
167	3	237	3.63	10.43	-19.87	6.52	-15.96	10.15	3839.61	-2.119e+04	1105.49	-1.845e+04	7806.89
		219	11.09	22.92	-16.70	21.81	-15.58	6.56	6.444e+04	-1.472e+04	6.416e+04	-1.445e+04	-4646.14
		177	11.86	29.40	-25.31	27.31	-23.23	10.48	5.770e+04	-3.045e+04	5.034e+04	-2.308e+04	2.439e+04
		27	24.75	36.02	-16.47	35.62	-16.08	-4.53	1.627e+05	-1914.38	1.441e+05	1.673e+04	-5.218e+04
167	4	237	4.30	8.41	-17.31	5.57	-14.47	8.07	-723.45	-2.833e+04	-3869.82	-2.518e+04	8772.03
		219	9.59	16.58	-15.97	15.36	-14.74	6.20	4.926e+04	-2.188e+04	4.919e+04	-2.181e+04	-2301.72
		177	10.13	21.73	-21.91	20.36	-20.55	7.59	3.797e+04	-3.860e+04	3.113e+04	-3.176e+04	2.184e+04
		27	21.78	23.75	-13.99	23.67	-13.91	-1.82	1.408e+05	-1.789e+04	1.254e+05	8634.97	-4.515e+04
167	5	237	3.04	15.29	-26.29	8.95	-19.95	14.94	1.437e+04	-7336.87	1.244e+04	-5414.54	6166.48
		219	15.87	37.26	-19.27	36.19	-18.20	7.70	1.047e+05	520.55	1.037e+05	1477.13	-9935.36
		177	17.48	46.79	-33.62	43.05	-29.87	16.94	1.063e+05	-1.458e+04	9.699e+04	-5219.29	3.231e+04
		27	33.82	63.24	-22.80	62.01	-21.57	-10.21	2.289e+05	1.170e+04	2.010e+05	3.957e+04	-7.265e+04
168	2	202	6.25	-3.95	-11.89	-6.84	-9.00	-3.82	-1609.93	-4.211e+04	-1.022e+04	-3.350e+04	-1.657e+04
		223	8.27	-1.91	-12.42	-6.17	-8.16	-5.16	-1.611e+04	-6.101e+04	-2.589e+04	-5.123e+04	-1.854e+04
		224	8.18	-2.74	-13.17	-5.35	-10.56	-4.52	-1.061e+04	-5.869e+04	-2.961e+04	-3.969e+04	-2.351e+04
		233	7.76	-1.03	-13.13	-6.68	-7.48	-6.03	7987.36	-4.687e+04	-8797.03	-3.008e+04	-2.528e+04
168	3	202	5.51	14.32	-21.49	8.08	-15.25	-13.59	3.182e+04	-7012.47	2.985e+04	-5038.70	-8529.58
		223	6.37	15.28	-20.36	7.63	-12.70	-14.64	3.369e+04	-1.285e+04	3.149e+04	-1.065e+04	-9864.66
		224	6.53	12.48	-20.69	-0.42	-7.79	-16.17	2.913e+04	-1.995e+04	2.151e+04	-1.233e+04	-1.777e+04
		233	4.74	7.53	-17.83	2.99	-13.29	-9.72	2.432e+04	-1.062e+04	2.293e+04	-9226.39	-6844.73
168	4	202	5.23	10.31	-18.66	5.03	-13.38	-11.18	2.657e+04	-1.188e+04	2.391e+04	-9215.77	-9761.41
		223	6.01	11.36	-17.91	4.76	-11.31	-12.23	2.590e+04	-1.935e+04	2.297e+04	-1.642e+04	-1.114e+04
		224	6.32	9.09	-18.30	-1.26	-7.96	-13.28	2.281e+04	-2.499e+04	1.395e+04	-1.614e+04	-1.857e+04
		233	4.75	5.44	-15.92	1.12	-11.60	-8.58	2.091e+04	-1.488e+04	1.822e+04	-1.218e+04	-9448.31
169	3	230	7.58	19.73	-21.85	19.05	-21.18	-5.25	4.411e+04	-9293.79	4.182e+04	-7005.84	-1.081e+04
		232	9.68	24.09	-20.41	22.61	-18.93	-7.98	5.968e+04	-6871.50	5.386e+04	-1051.49	-1.880e+04
		222	9.63	25.60	-19.09	19.82	-13.30	-15.00	6.578e+04	5844.20	5.922e+04	1.241e+04	-1.871e+04
		225	6.52	18.62	-21.38	14.91	-17.67	-11.61	3.924e+04	-5821.08	3.274e+04	682.02	-1.584e+04
169	4	230	7.08	14.45	-19.16	13.86	-18.57	-4.42	3.509e+04	-1.738e+04	3.322e+04	-1.551e+04	-9708.59
		232	8.49	18.33	-18.51	17.12	-17.30	-6.55	4.513e+04	-1.694e+04	3.992e+04	-1.173e+04	-1.721e+04
		222	8.14	19.24	-17.53	14.69	-12.98	-12.11	5.047e+04	-5210.56	4.459e+04	671.76	-1.712e+04
		225	6.18	13.99	-18.85	11.02	-15.88	-9.42	3.120e+04	-1.433e+04	2.477e+04	-7905.17	-1.585e+04
169	5	230	9.87	31.68	-28.49	30.79	-27.61	-7.25	6.794e+04	7842.98	6.451e+04	1.128e+04	-1.395e+04
		232	13.91	37.24	-25.35	35.12	-23.23	-11.33	9.782e+04	1.498e+04	8.996e+04	2.283e+04	-2.427e+04
		222	14.38	40.09	-23.28	31.45	-14.65	-21.74	1.062e+05	3.159e+04	9.777e+04	3.999e+04	-2.358e+04
		225	8.50	29.18	-27.66	23.74	-22.22	-16.72	6.066e+04	1.259e+04	5.320e+04	2.005e+04	-1.740e+04
170	3	203	5.73	6.66	-27.72	-25.24	4.18	-8.90	-315.15	-3.737e+04	-3.677e+04	-922.32	-4704.50
		212	9.89	16.93	-18.41	-9.02	7.54	-15.61	4.680e+04	-2.747e+04	8704.70	1.063e+04	-3.712e+04
		193	4.36	-6.47	-16.50	-16.06	-6.91	-2.06	-2.388e+04	-3.189e+04	-2.626e+04	-2.951e+04	3660.63
		34	23.40	34.23	-14.57	8.55	11.11	-24.36	1.512e+05	-6590.19	8.311e+04	6.151e+04	-7.816e+04
170	4	203	5.82	4.53	-22.92	-20.39	1.99	-7.95	-2301.32	-3.909e+04	-3.821e+04	-3186.22	-5636.90
		212	8.89	11.92	-16.50	-9.59	5.01	-12.19	3.809e+04	-2.933e+04	1159.19	7599.07	-3.356e+04
		193	4.36	-3.35	-14.86	-14.29	-3.92	-2.50	-2.527e+04	-3.130e+04	-3.016e+04	-2.641e+04	2356.50
		34	21.15	21.69	-12.82	4.00	4.87	-17.25	1.366e+05	-6793.07	7.174e+04	5.802e+04	-7.134e+04
170	5	203	5.94	11.59	-39.17	-36.51	8.93	-11.31	3060.40	-3.656e+04	-3.640e+04	2903.85	-2485.47
		212	13.09	28.29	-23.40	-8.28	13.17	-23.51	7.043e+04	-2.538e+04	2.702e+04	1.803e+04	-4.770e+04
		193	5.45	-13.27	-20.73	-20.53	-13.48	-1.23	-1.839e+04	-4.142e+04	-2.088e+04	-3.893e+04	7146.29
		34	30.72	62.01	-18.92	18.37	24.72	-40.34	2.006e+05	-3817.86	1.191e+05	7.762e+04	-1.001e+05
171	3	191	4.09	-3.11	-19.70	-3.12	-19.70	-0.32	-1726.76	-2.793e+04	-1.622e+04	-1.344e+04	-1.303e+04
		213	4.74	12.27	-18.53	10.82	-17.09	-6.51	3.130e+04	818.04	2.902e+04	3097.10	-8017.40
		202	6.23	14.63	-21.40	14.21	-20.98	-3.88	3.322e+04	-1.227e+04	3.905e+04	-1.001e+04	9897.68
		35	16.74	26.72	-26.44	21.03	-20.75	-16.44	1.027e+05	-1.372e+04	8.547e+04	3528.77	-4.137e+04
171	4	191	3.92	-1.43	-17.39	-1.46	-17.35	-0.76	-5147.96	-2.810e+04	-1.434e+04	-1.891e+04	-1.124e+04
		213	4.57	8.84	-16.81	7.98	-15.96	-4.60	2.679e+04	-5380.87	2.494e+04	-3534.34	-7482.45
		202	5.78	10.46	-18.12	9.98	-17.64	-3.66	2.680e+04	-1.658e+04	2.532e+04	-1.509e+04	7882.54
		35	15.55	17.53	-22.21	14.04	-18.71	-11.26	9.454e+04	-1.470e+04	7.899e+04	848.81	-3.817e+04
171	5	191	5.66	-6.74	-25.49	-6.76	-25.47	0.60	8046.51	-3.302e+04	-2.171e+04	-3270.66	1.835e+04
		213	5.94	20.20	-23.10	17.29	-20.19	-10.84	4.414e+04	1.524e+04	4.060e+04	1.878e+04	-9472.58
		202	8.00	24.12	-29.34	23.74	-28.96	-4.52	5.030e+04	-3990.19	4.521e+04	1094.06	1.582e+04
		35	21.00	47.50	-36.65	36.74	-25.89	-28.10	1.325e+05	-9848.48	1.101e+05	1.262e+04	-5.191e+04
172	3	221	9.68	21.87	-19.03	14.48	-11.64	15.74	5.091e+04	-2.035e+04	1.787e+04	1.269e+04	3.553e+04
		240	10.05	24.83	-20.23	14.97	-10.37	18.63	6.159e+04	-7701.55	4.229e+04	1.160e+04	3.106e+04
		241	11.50	24.98	-18.53	21.81	-15.36	11.31	6.317e+04	-2.049e+04	4.606e+04	-3372.95	3.375e+04
		33	15.84	21.20	-26.91	18.95	-24.66	10.16	8.576e+04	-3.033e+04	7.724e+04	-2.180e+04	3.029e+04
172	4	221	8.75	16.74	-16.96	11.30	-11.52	12.40	3.745e+04	-2.877e+04	8196.74	485.04	3.289e+04



		240	8.43	19.12	-18.80	10.76	-10.45	15.71	4.368e+04	-1.829e+04	2.678e+04	-1383.68	2.760e+04
		241	9.84	17.88	-16.55	15.24	-13.91	9.16	4.557e+04	-2.850e+04	3.030e+04	-1.323e+04	2.996e+04
		33	14.31	13.95	-24.10	11.31	-21.45	9.68	7.296e+04	-3.358e+04	6.585e+04	-2.646e+04	2.660e+04
172	5	221	13.32	33.72	-24.43	21.80	-12.50	23.48	8.534e+04	-4191.07	4.054e+04	4.061e+04	4.477e+04
		240	15.33	37.92	-24.18	24.45	-10.71	25.59	1.075e+05	1.546e+04	8.115e+04	4.181e+04	4.160e+04
		241	16.74	40.89	-23.72	36.43	-19.26	16.39	1.081e+05	-3617.09	8.490e+04	1.959e+04	4.533e+04
		33	20.89	37.53	-34.32	35.61	-32.40	11.58	1.240e+05	-2.374e+04	1.112e+05	-1.099e+04	4.148e+04
173	3	220	9.80	14.91	-17.13	-12.61	10.40	-11.15	3.968e+04	-3.475e+04	-1.316e+04	1.809e+04	-3.377e+04
		229	13.10	16.00	-22.46	-19.12	12.66	-10.82	3.288e+04	-6.499e+04	-4.729e+04	1.518e+04	-3.767e+04
		231	10.39	8.10	-18.19	-17.68	7.59	-3.62	2.747e+04	-5.062e+04	-3.837e+04	1.522e+04	-2.841e+04
		226	10.73	11.95	-18.24	-15.78	9.49	-8.26	3.942e+04	-4.226e+04	-1.945e+04	1.661e+04	-3.664e+04
173	4	220	8.89	10.80	-15.99	-12.37	7.18	-9.16	2.737e+04	-3.984e+04	-2.208e+04	9606.28	-2.964e+04
		229	12.08	11.48	-20.41	-17.72	8.79	-8.86	2.033e+04	-6.752e+04	-5.266e+04	5462.61	-3.294e+04
		231	9.73	5.21	-16.26	-15.84	4.79	-2.98	2.033e+04	-5.167e+04	-4.226e+04	1.092e+04	-2.427e+04
		226	9.99	8.05	-16.25	-14.30	6.11	-6.59	3.035e+04	-4.532e+04	-2.609e+04	1.112e+04	-3.295e+04
173	5	220	13.29	24.15	-20.54	-13.93	17.54	-15.87	7.116e+04	-2.646e+04	5709.36	3.899e+04	-4.588e+04
		229	17.07	26.08	-27.97	-23.11	21.22	-15.46	6.421e+04	-6.546e+04	-3.958e+04	3.834e+04	-5.182e+04
		231	13.04	14.39	-23.17	-22.44	13.66	-5.17	4.588e+04	-5.341e+04	-3.321e+04	2.567e+04	-3.997e+04
		226	13.69	20.57	-23.37	-19.69	16.90	-12.17	6.344e+04	-3.990e+04	-6353.83	2.989e+04	-4.839e+04
174	3	246	9.68	6.34	-15.82	-15.10	5.62	-3.93	2.273e+04	-4.943e+04	-4.121e+04	1.451e+04	-2.293e+04
		216	10.51	4.38	-17.68	-17.21	3.91	-3.16	2.253e+04	-5.537e+04	-4.897e+04	1.612e+04	-2.140e+04
		196	10.64	2.61	-19.11	-19.05	2.55	1.14	2.321e+04	-5.577e+04	-5.527e+04	2.270e+04	-6294.79
		195	8.30	2.10	-14.90	-14.90	2.09	-0.21	1.870e+04	-4.308e+04	-3.959e+04	1.520e+04	-1.427e+04
174	4	246	8.98	4.11	-14.46	-13.97	3.61	-3.00	1.635e+04	-4.946e+04	-4.357e+04	1.047e+04	-1.878e+04
		216	9.77	3.12	-16.50	-16.17	2.78	-2.54	1.713e+04	-5.427e+04	-4.968e+04	1.255e+04	-1.750e+04
		196	10.17	1.47	-17.10	-17.07	1.43	0.78	2.053e+04	-5.453e+04	-5.435e+04	2.035e+04	-3705.04
		195	8.01	1.62	-13.73	-13.73	1.62	0.13	1.579e+04	-4.329e+04	-4.115e+04	1.365e+04	-1.104e+04
174	5	246	12.26	11.27	-19.61	-18.37	10.02	-6.07	3.883e+04	-5.421e+04	-3.938e+04	2.400e+04	-3.405e+04
		216	13.33	7.21	-21.21	-20.44	6.45	-4.61	3.703e+04	-6.355e+04	-5.169e+04	2.518e+04	-3.243e+04
		196	12.87	5.02	-24.33	-24.21	4.90	1.91	3.215e+04	-6.423e+04	-6.254e+04	3.046e+04	-1.264e+04
		195	9.98	3.23	-18.21	-18.17	3.19	-0.90	2.766e+04	-4.767e+04	-4.020e+04	2.019e+04	-2.252e+04
175	3	214	8.27	6.32	-16.93	5.20	-15.81	4.98	2.681e+04	-3.601e+04	1.005e+04	1.925e+04	2.778e+04
		226	10.27	11.47	-18.07	9.81	-16.41	6.79	3.696e+04	-4.124e+04	1.528e+04	1.955e+04	3.501e+04
		231	9.58	7.18	-17.31	6.91	-17.04	2.56	2.184e+04	-4.946e+04	1.242e+04	-4.004e+04	2.414e+04
		204	9.55	6.73	-17.98	6.30	-17.55	3.22	3.364e+04	-3.909e+04	2.414e+04	-2.959e+04	2.450e+04
175	4	214	7.86	4.15	-15.20	3.15	-14.20	4.30	2.119e+04	-3.798e+04	7344.95	-2.413e+04	2.506e+04
		226	9.50	8.02	-16.23	6.77	-14.98	5.36	2.791e+04	-4.391e+04	9941.15	-2.594e+04	3.111e+04
		231	9.01	4.58	-15.49	4.32	-15.23	2.26	1.472e+04	-5.076e+04	7640.29	-4.368e+04	2.034e+04
		204	8.81	3.81	-15.86	3.46	-15.52	2.57	2.780e+04	-3.907e+04	2.070e+04	-3.196e+04	2.060e+04
175	5	214	10.24	11.12	-21.41	9.69	-19.98	6.67	4.211e+04	-3.593e+04	1.612e+04	-9932.36	3.678e+04
		226	13.26	19.12	-22.90	16.51	-20.29	10.14	6.081e+04	-3.947e+04	2.815e+04	-6815.37	4.699e+04
		231	11.98	12.91	-22.05	12.58	-21.71	3.40	3.927e+04	-5.173e+04	2.318e+04	-3.564e+04	3.471e+04
		204	12.16	13.05	-23.34	12.43	-22.72	4.74	4.990e+04	-4.259e+04	3.354e+04	-2.623e+04	3.529e+04
176	3	37	9.01	7.94	-3.20	-2.40	7.14	2.89	3.602e+04	-3.314e+04	-2558.21	5432.40	-3.435e+04
		217	14.32	1.83	-16.88	-15.60	0.54	-4.73	1.794e+04	-8.466e+04	-8.121e+04	1.450e+04	-1.848e+04
		215	10.73	1.75	-13.41	-13.25	1.60	1.55	1.088e+04	-6.499e+04	-6.432e+04	1.021e+04	-7103.56
		245	14.95	3.81	-18.88	-18.30	3.22	-3.60	3.103e+04	-7.975e+04	-7.143e+04	2.271e+04	-2.920e+04
176	4	37	8.02	7.71	-4.93	-3.19	5.97	4.36	2.654e+04	-3.476e+04	-9411.04	1189.14	-3.019e+04
		217	13.35	-0.72	-15.71	-14.42	-2.00	-4.20	1.063e+04	-8.274e+04	-8.043e+04	8312.03	-1.453e+04
		215	10.07	0.55	-12.07	-11.87	0.35	1.57	6394.85	-6.331e+04	-6.305e+04	6135.23	-4246.20
		245	13.72	1.26	-16.96	-16.49	0.79	-2.87	2.365e+04	-7.676e+04	-7.026e+04	1.715e+04	-2.472e+04
176	5	37	12.46	10.01	-1.40	-1.40	10.01	0.04	6.309e+04	-3.097e+04	1.506e+04	1.706e+04	-4.702e+04
		217	18.09	7.06	-20.51	-19.07	5.63	-6.12	3.617e+04	-9.755e+04	-9.077e+04	2.939e+04	-2.934e+04
		215	13.26	4.25	-17.10	-16.99	4.14	1.55	2.165e+04	-7.495e+04	-7.275e+04	1.945e+04	-1.441e+04
		245	19.22	9.07	-23.88	-23.00	8.19	-5.30	5.013e+04	-9.451e+04	-8.061e+04	3.624e+04	-4.262e+04
177	3	245	10.14	3.40	-21.32	-20.43	2.52	-4.59	-1.368e+04	-7.266e+04	-6.540e+04	-2.094e+04	-1.938e+04
		215	13.50	1.63	-14.77	-12.35	-0.79	-5.82	3.795e+04	-6.429e+04	-4.067e+04	1.433e+04	-4.309e+04
		197	7.72	2.41	-10.05	-9.10	1.46	-3.30	9436.95	-4.570e+04	-3.663e+04	364.78	-2.044e+04
		38	19.74	9.31	-15.27	4.01	-9.97	-10.11	1.158e+05	-2.656e+04	3.561e+04	5.368e+04	-7.063e+04
177	4	245	9.80	3.07	-18.97	-17.91	2.01	-4.71	-1.590e+04	-7.119e+04	-6.526e+04	-2.182e+04	-1.710e+04
		215	12.30	-1.58	-13.22	-11.73	-3.07	-3.89	3.060e+04	-6.190e+04	-4.256e+04	1.126e+04	-3.762e+04
		197	7.34	2.54	-9.67	-9.21	2.07	-2.34	6693.62	-4.492e+04	-3.865e+04	426.21	-1.686e+04
		38	17.62	4.34	-15.28	2.03	-12.98	-6.32	1.034e+05	-2.394e+04	2.859e+04	5.092e+04	-6.271e+04
177	5	245	11.83	4.39	-27.50	-26.78	3.67	-4.73	-1.096e+04	-8.287e+04	-7.149e+04	-2.234e+04	-2.624e+04
		215	17.48	8.09	-18.95	-14.47	3.62	-10.05	5.783e+04	-7.546e+04	-3.949e+04	2.186e+04	-5.917e+04
		197	9.51	2.75	-11.96	-9.56	0.35	-5.43	1.731e+04	-5.253e+04	-3.578e+04	562.16	-2.982e+04
		38	26.45	21.00	-17.61	8.13	-4.74	-18.20	1.565e+05	-3.289e+04	5.743e+04	6.622e+04	-9.462e+04
178	3	205	10.81	2.52	-14.83	-1.27	-11.04	7.17	3.339e+04	-4.876e+04	2.235e+04	-3.772e+04	2.801e+04
		181	10.41	2.53	-15.65	-2.51	-10.60	8.14	1.300e+04	-6.141e+04	-6414.51	-4.200e+04	3.267e+04
		180	12.39	4.77	-16.10	-0.34	-10.98	8.98	1.687e+04	-7.227e+04	6949.97	-6.235e+04	2.803e+04
		206	10.39	3.24	-15.82	-0.44	-12.14	7.52	2.219e+04	-5.490e+04	1.758e+04	-5.029e+04	1.828e+04
178	4	205	9.88	-0.20	-13.21	-3.10	-10.31	5.41	2.754e+04	-4.720e+04	1.566e+04	-3.532e+04	2.732e+04
		181	9.73	1.16	-14.39	-3.45	-9.78	7.10	8739.07	-5.954e+04	-1.164e+04	-3.917e+04	3.124e+04
		180	11.56	2.35	-14.57	-1.79	-10.42	6.28	9516.08	-7.133e+04	-1011.50	-6.080e+04	2.721e+04
		206	9.72	1.56	-14.43	-1.39	-11.47	7.21	1.653e+04	-5.444e+04	1.113e+04	-4.904e+04	1.882e+04
178	5	205	13.89	8.10	-19.04	2.27	-13.22	11.14	4.968e+04	-5.629e+04	3.935e+04	-4.596e+04	3.143e+04
		181	12.96	5.46	-19.29	-0.82	-13.01	10.77	2.342e+04	-7.152e+04	3988.03	-5.209e+04	3.831e+04

		180	15.61	9.94	-20.26	2.58	-12.90	12.96	3.465e+04	-8.146e+04	2.498e+04	-7.179e+04	3.209e+04
		206	13.07	6.81	-19.65	1.46	-14.30	10.62	3.702e+04	-6.182e+04	3.354e+04	-5.834e+04	1.821e+04
179	3	28	15.05	21.56	-26.25	21.54	-26.23	-1.06	8.973e+04	-1.658e+04	8.972e+04	1.723e+04	1015.51
		238	6.15	9.62	-18.01	8.96	-17.35	-4.20	2.371e+04	-2.316e+04	5593.15	-5034.76	-2.282e+04
		242	4.62	11.76	-17.97	10.89	-17.10	-5.02	2.749e+04	-4686.18	2.277e+04	37.39	-1.139e+04
		188	5.44	0.80	-19.79	-0.10	-18.89	-4.21	7538.09	-3.164e+04	-1.397e+04	-1.014e+04	-1.950e+04
179	4	28	14.08	13.29	-22.59	13.12	-22.41	-2.51	8.317e+04	-1.724e+04	8.315e+04	-1.723e+04	1063.62
		238	5.74	7.11	-15.47	6.75	-15.11	-2.83	1.707e+04	-2.639e+04	2234.81	-1.156e+04	-2.061e+04
		242	4.48	8.50	-16.44	7.58	-15.52	-4.70	2.238e+04	-1.066e+04	1.841e+04	-6686.34	-1.075e+04
		188	5.33	1.46	-17.56	0.75	-16.85	-3.62	4440.84	-3.276e+04	-1.279e+04	-1.553e+04	-1.855e+04
179	5	28	18.61	40.26	-35.42	40.21	-35.37	2.00	1.146e+05	-1.374e+04	1.146e+05	-1.373e+04	686.56
		238	8.02	15.39	-24.28	14.00	-22.89	-7.30	4.067e+04	-1.931e+04	1.195e+04	9411.71	-2.996e+04
		242	5.78	19.21	-22.06	18.34	-21.19	-5.92	4.134e+04	8312.89	3.395e+04	1.570e+04	-1.376e+04
		188	6.80	-0.55	-25.37	-1.90	-24.01	-5.64	1.684e+04	-3.432e+04	-1.803e+04	546.54	-2.383e+04
180	3	231	9.11	6.79	-20.55	6.62	-20.38	-2.16	1.157e+04	-5.332e+04	1.085e+04	-5.260e+04	6826.03
		229	16.88	17.88	-21.30	16.39	-19.81	7.49	5.842e+04	-7.008e+04	4.449e+04	-5.615e+04	3.995e+04
		37	17.20	9.08	-35.10	7.83	-33.86	-7.32	3020.31	-1.118e+05	-6616.99	-1.022e+05	-3.184e+04
		246	8.58	4.52	-9.50	4.30	-9.27	1.76	2.471e+04	-4.029e+04	1.403e+04	-2.962e+04	2.408e+04
180	4	231	8.81	4.58	-18.03	4.50	-17.95	-1.37	7109.02	-5.416e+04	6801.37	-5.385e+04	4330.50
		229	15.28	11.55	-19.22	10.45	-18.12	5.71	4.291e+04	-7.248e+04	3.146e+04	-6.103e+04	3.450e+04
		37	15.95	7.72	-30.64	7.16	-30.08	-4.61	-621.49	-1.056e+05	-1.023e+04	-9.598e+04	-3.027e+04
		246	7.69	2.35	-9.07	2.26	-8.99	1.00	1.621e+04	-4.089e+04	8797.01	-3.348e+04	1.919e+04
180	5	231	10.70	11.77	-26.81	11.40	-26.45	-3.73	2.252e+04	-5.629e+04	2.038e+04	-5.415e+04	1.281e+04
		229	22.44	31.52	-26.80	29.17	-24.46	11.45	9.857e+04	-7.161e+04	7.776e+04	-5.080e+04	5.575e+04
		37	21.43	12.80	-46.27	9.84	-43.31	-12.90	1.325e+04	-1.340e+05	2538.46	-1.233e+05	-3.825e+04
		246	11.66	9.26	-11.20	8.70	-10.64	3.34	4.552e+04	-4.367e+04	2.549e+04	-2.363e+04	3.722e+04
181	3	209	7.68	7.55	-18.25	7.47	-18.17	-1.45	2.699e+04	-3.132e+04	2.016e+04	-2.448e+04	-1.876e+04
		227	8.78	12.90	-19.23	12.85	-19.17	-1.32	3.217e+04	-3.449e+04	2.564e+04	-2.795e+04	-1.982e+04
		228	8.05	13.26	-19.59	12.59	-18.92	-4.65	3.503e+04	-2.580e+04	2.484e+04	-1.561e+04	-2.272e+04
		210	7.25	10.97	-19.12	9.79	-17.94	-5.84	3.073e+04	-2.407e+04	1.942e+04	-1.276e+04	-2.218e+04
181	4	209	7.32	5.24	-16.53	5.15	-16.44	-1.46	2.123e+04	-3.394e+04	1.628e+04	-2.899e+04	-1.578e+04
		227	8.22	9.40	-17.20	9.35	-17.15	-1.20	2.339e+04	-3.851e+04	1.854e+04	-3.366e+04	-1.664e+04
		228	7.56	9.52	-17.42	8.97	-16.87	-3.78	2.687e+04	-3.047e+04	1.877e+04	-2.237e+04	-1.997e+04
		210	6.85	7.91	-16.89	7.13	-16.11	-4.34	2.477e+04	-2.722e+04	1.605e+04	-1.850e+04	-1.943e+04
181	5	209	9.49	12.71	-22.77	12.64	-22.70	-1.54	4.249e+04	-2.934e+04	2.997e+04	-1.681e+04	-2.725e+04
		227	11.21	20.82	-24.44	20.76	-24.37	-1.70	5.474e+04	-2.908e+04	4.338e+04	-1.771e+04	-2.870e+04
		228	10.28	21.68	-25.13	20.69	-24.14	-6.72	5.645e+04	-1.837e+04	4.002e+04	-1.935e+04	-3.098e+04
		210	9.09	17.92	-24.74	15.80	-22.62	-9.26	4.709e+04	-2.005e+04	2.817e+04	-1131.26	-3.020e+04
182	2	188	7.64	-1.49	-13.83	-4.83	-10.49	-5.49	8342.72	-4.580e+04	-392.56	-3.707e+04	-1.992e+04
		242	7.46	0.08	-13.11	-3.16	-9.87	-5.67	-9430.86	-5.332e+04	-1.744e+04	-4.530e+04	-1.695e+04
		201	7.27	-2.58	-13.25	-4.45	-11.37	-4.06	-2402.55	-4.924e+04	-1.264e+04	-3.901e+04	-1.936e+04
		189	7.97	0.79	-12.07	-1.41	-9.86	-4.85	5491.03	-4.973e+04	-4261.33	-3.997e+04	-2.106e+04
182	3	188	4.82	6.91	-20.45	3.63	-17.17	-8.88	2.097e+04	-1.518e+04	9120.63	-3333.49	-1.697e+04
		242	4.75	9.37	-18.80	4.89	-14.32	-10.30	2.115e+04	-1.441e+04	6489.23	256.95	-1.750e+04
		201	4.81	11.85	-19.35	1.14	-8.64	-14.81	2.692e+04	-7444.00	9209.44	1.027e+04	-1.718e+04
		189	3.52	3.26	-19.66	-1.58	-14.81	-9.36	1.116e+04	-1.510e+04	-35.81	-3904.50	-1.299e+04
182	4	188	5.03	4.98	-18.17	1.94	-15.13	-7.82	1.874e+04	-1.925e+04	7730.71	-8245.27	-1.723e+04
		242	4.77	7.25	-16.85	3.21	-12.82	-9.00	1.630e+04	-1.965e+04	3088.91	-6434.99	-1.733e+04
		201	4.71	8.62	-17.24	0.07	-8.69	-12.17	2.212e+04	-1.296e+04	6029.54	3123.66	-1.748e+04
		189	3.96	2.66	-17.30	-1.47	-13.16	-8.09	9804.11	-1.952e+04	-667.19	-9043.94	-1.405e+04
183	3	234	2.83	13.33	-19.52	12.48	-18.66	-5.22	1.990e+04	4037.24	1.943e+04	4506.46	-2687.80
		30	10.62	10.93	-20.59	10.71	-20.38	2.59	4.851e+04	-3.245e+04	1.227e+04	3792.90	4.025e+04
		221	14.77	28.81	-20.75	23.68	-15.63	-15.09	8.850e+04	-1.539e+04	8.013e+04	-7018.31	-2.827e+04
		223	7.45	15.16	-21.38	13.59	-19.81	-7.41	3.687e+04	-1.858e+04	3.571e+04	-1.742e+04	7920.61
183	4	234	2.49	10.41	-17.83	9.72	-17.14	-4.34	1.377e+04	-3575.10	1.333e+04	-3138.19	-2717.89
		30	9.42	9.65	-17.31	9.65	-17.31	0.06	3.796e+04	-3.437e+04	7316.93	-3721.57	3.574e+04
		221	13.27	20.18	-18.67	16.30	-14.79	-11.65	7.215e+04	-2.498e+04	6.385e+04	-1.668e+04	-2.715e+04
		223	6.99	11.40	-18.36	9.82	-16.78	-6.66	2.921e+04	-2.370e+04	2.860e+04	-2.310e+04	5630.77
183	5	234	4.58	20.11	-23.95	18.86	-22.70	-7.29	3.425e+04	2.264e+04	3.380e+04	2.309e+04	-2248.19
		30	14.70	14.98	-29.27	13.51	-27.80	7.93	7.967e+04	-2.919e+04	2.672e+04	2.376e+04	5.441e+04
		221	19.97	48.12	-26.09	40.16	-18.13	-22.96	1.329e+05	3688.67	1.235e+05	1.305e+04	-3.350e+04
		223	9.64	23.82	-28.77	22.12	-27.07	-9.31	5.818e+04	-9291.86	5.499e+04	-6104.07	1.432e+04
184	3	223	6.57	15.95	-22.04	9.06	-15.14	-14.64	3.443e+04	-1.352e+04	3.018e+04	-9270.47	-1.363e+04
		221	11.38	22.75	-18.74	16.22	-12.21	-15.11	6.344e+04	-1.906e+04	6.103e+04	-1.665e+04	-1.388e+04
		33	10.91	17.72	-29.25	-5.09	-6.44	-23.47	3.815e+04	-4.420e+04	-4167.19	-1881.34	-4.116e+04
		224	6.96	12.33	-16.58	4.80	-9.05	-12.69	3.462e+04	-1.733e+04	3.331e+04	-1.602e+04	-8140.61
184	4	223	6.38	11.65	-19.29	6.03	-13.67	-11.93	2.767e+04	-2.024e+04	2.285e+04	-1.541e+04	-1.442e+04
		221	10.13	16.79	-16.86	11.23	-11.30	-12.50	4.871e+04	-2.731e+04	4.585e+04	-2.445e+04	-1.447e+04
		33	10.23	13.36	-25.32	-4.12	-7.85	-19.25	3.005e+04	-4.684e+04	-1.039e+04	-6403.43	-3.839e+04
		224	6.46	8.81	-14.71	2.63	-8.54	-10.35	2.651e+04	-2.254e+04	2.429e+04	-2.032e+04	-1.019e+04
184	5	223	8.06	25.70	-28.77	15.85	-18.93	-20.96	5.252e+04	105.53	4.918e+04	3442.40	-1.280e+04
		221	15.75	36.18	-23.63	27.27	-14.72	-21.30	1.020e+05	-3048.22	1.001e+05	-1133.20	-1.405e+04
		33	13.58	27.79	-38.78	-7.12	-3.87	-33.25	6.113e+04	-4.051e+04	1.077e+04	9848.94	-5.082e+04
		224	9.16	20.27	-21.37	9.52	-10.61	-18.22	5.564e+04	-8563.35	5.540e+04	-8313.96	-3993.81
185	3	213	4.18	11.24	-19.82	9.69	-18.28	-6.76	2.362e+04	-5899.50	2.322e+04	-5494.28	-3434.93
		234	3.54	12.95	-19.59	12.23	-18.87	-4.77	2.265e+04	-599.15	2.217e+04	-123.28	3291.85
		223	6.36	15.92	-20.59	13.42	-18.09	-9.23	3.464e+04	-1.142e+04	3.461e+04	-1.139e+04	1129.99

		202	5.11	13.77	-21.55	11.89	-19.67	-7.92	2.896e+04	-7356.27	2.895e+04	-7344.66	-649.15
185	4	213	4.25	8.29	-17.54	7.16	-16.41	-5.29	1.956e+04	-1.201e+04	1.910e+04	-1.155e+04	-3776.73
		234	3.27	10.21	-17.60	9.56	-16.95	-4.21	1.638e+04	-7518.38	1.616e+04	-7297.81	2285.15
		223	5.94	11.81	-18.17	9.56	-15.92	-7.90	2.683e+04	-1.777e+04	2.683e+04	-1.777e+04	-439.43
		202	4.89	9.96	-18.70	8.36	-17.10	-6.59	2.387e+04	-1.228e+04	2.375e+04	-1.216e+04	-2064.27
185	5	213	4.78	17.98	-25.53	15.47	-23.01	-10.15	3.411e+04	7498.79	3.387e+04	7743.38	-2539.60
		234	5.15	19.32	-24.67	18.43	-23.79	-6.17	3.883e+04	1.521e+04	3.705e+04	1.699e+04	6240.71
		223	8.34	25.29	-26.65	22.12	-23.48	-12.43	5.525e+04	1279.59	5.470e+04	1823.15	5388.72
		202	6.32	22.40	-28.49	19.88	-25.96	-11.06	4.274e+04	3347.37	4.252e+04	3563.10	2907.12
186	3	187	2.51	-4.23	-17.07	-4.40	-16.89	1.48	-1.604e+04	-1.671e+04	-1.638e+04	-1.637e+04	337.52
		210	10.58	15.91	-17.89	13.56	-15.54	-8.59	5.747e+04	-2.009e+04	3.794e+04	-557.75	-3.367e+04
		238	5.75	10.13	-26.86	10.08	-26.81	-1.43	1.184e+04	-2.984e+04	1.147e+04	-2.947e+04	-3923.75
		28	21.45	28.91	-16.28	19.23	-6.60	-18.54	1.378e+05	-7798.83	8.645e+04	4.351e+04	-6.954e+04
186	4	187	2.89	-2.35	-15.21	-2.43	-15.13	1.03	-1.415e+04	-2.140e+04	-1.431e+04	-2.124e+04	1087.19
		210	9.52	10.92	-15.88	9.46	-14.42	-6.09	4.844e+04	-2.251e+04	3.297e+04	-7035.60	-2.930e+04
		238	5.81	7.53	-22.76	7.44	-22.68	-1.61	7963.23	-3.323e+04	7661.71	-3.293e+04	-3511.32
		28	19.34	18.53	-13.48	11.89	-6.83	-12.99	1.239e+05	-8009.41	8.028e+04	3.562e+04	-6.206e+04
186	5	187	2.96	-8.28	-21.84	-8.75	-21.37	2.47	-7613.27	-2.226e+04	-2.219e+04	-7683.19	-1009.70
		210	14.08	27.18	-23.06	22.75	-18.63	-14.25	8.325e+04	-1.669e+04	5.226e+04	1.430e+04	-4.623e+04
		238	6.05	16.07	-36.69	16.04	-36.67	-1.12	2.008e+04	-2.984e+04	1.950e+04	-2.408e+04	-5041.99
		28	28.31	51.98	-22.91	35.54	-6.47	-31.00	1.839e+05	-5533.52	1.104e+05	6.797e+04	-9.230e+04
187	3	172	11.46	12.06	-27.12	10.54	-25.59	-7.58	-2.157e+04	-8.385e+04	-2.420e+04	-8.122e+04	-1.254e+04
		11	31.73	28.75	-44.96	19.73	-35.94	-24.15	-4.697e+04	-2.296e+05	-4.709e+04	-2.295e+05	-4595.38
		171	19.46	6.54	-35.89	0.72	-30.07	-14.60	-6.080e+04	-1.478e+05	-6.824e+04	-1.403e+05	-2.433e+04
187	4	172	11.19	7.47	-24.21	6.29	-23.02	-6.02	-3.146e+04	-8.431e+04	-3.360e+04	-8.217e+04	-1.041e+04
		11	30.40	22.44	-39.00	14.73	-31.29	-20.35	-5.541e+04	-2.234e+05	-5.543e+04	-2.234e+05	1684.51
		171	18.62	3.05	-31.81	-1.60	-27.16	-11.85	-6.459e+04	-1.421e+05	-7.069e+04	-1.360e+05	-2.088e+04
187	5	172	13.64	21.92	-34.71	19.61	-32.40	-11.21	-1.625	-17.902e+04	-5425.04	-8.640e+04	-1.795e+04
		11	37.55	43.62	-60.20	31.27	-47.85	-33.60	-2.798e+04	-2.608e+05	-2.967e+04	-2.591e+05	-1.981e+04
		171	23.25	13.63	-46.62	5.15	-38.14	-20.94	-5.691e+04	-1.738e+05	-6.780e+04	-1.629e+05	-3.396e+04
188	3	33	25.39	30.60	-12.16	18.13	0.31	19.43	1.656e+05	-4907.19	8.193e+04	7.875e+04	8.523e+04
		241	12.84	24.76	-27.33	20.15	-22.73	14.79	5.769e+04	-3.886e+04	4.531e+04	-2.649e+04	3.228e+04
		220	13.35	19.48	-15.43	14.99	-10.94	11.69	6.974e+04	-2.928e+04	3.852e+04	1948.63	4.601e+04
		226	6.76	5.93	-20.46	5.92	-20.45	-0.53	-6869.26	-4.735e+04	-7716.89	-4.650e+04	5796.22
188	4	33	22.31	19.03	-10.58	10.91	-2.46	13.21	1.431e+05	-9311.89	7.078e+04	6.298e+04	7.610e+04
		241	11.17	17.53	-23.66	13.61	-19.74	12.09	4.062e+04	-4.394e+04	3.013e+04	-3.345e+04	2.787e+04
		220	11.64	13.49	-14.60	10.49	-11.59	8.68	5.422e+04	-3.378e+04	2.833e+04	-7883.50	4.010e+04
		226	7.15	5.24	-17.89	5.23	-17.88	0.50	-1.040e+04	-5.135e+04	-1.095e+04	-5.080e+04	4711.83
188	5	33	34.81	55.68	-16.30	33.88	5.50	33.07	2.335e+05	6980.61	1.165e+05	1.240e+05	1.132e+05
		241	18.04	40.89	-36.21	34.59	-29.92	21.12	1.004e+05	-2.970e+04	8.290e+04	-1.217e+04	4.443e+04
		220	18.71	32.85	-18.29	25.02	-10.46	18.41	1.115e+05	-2.114e+04	6.551e+04	2.483e+04	6.312e+04
		226	6.69	7.89	-26.98	7.71	-26.80	-2.50	148.56	-4.365e+04	-1758.27	-4.174e+04	8937.36
189	3	204	9.63	7.37	-16.30	3.79	-12.72	8.48	3.658e+04	-3.682e+04	1.160e+04	-1.183e+04	3.478e+04
		231	9.76	7.83	-17.24	4.52	-13.93	8.49	2.449e+04	-4.860e+04	-1364.50	-2.275e+04	3.495e+04
		246	10.37	7.30	-19.82	4.53	-17.05	8.22	2.144e+04	-5.508e+04	3957.03	-3.759e+04	3.213e+04
		195	7.85	1.51	-12.75	0.61	-11.85	3.46	2.064e+04	-3.840e+04	9774.72	-2.753e+04	2.288e+04
189	4	204	8.82	4.30	-14.42	1.73	-11.85	6.44	3.037e+04	-3.683e+04	1.000e+04	-1.646e+04	3.088e+04
		231	9.08	5.02	-15.56	2.24	-12.78	7.03	1.674e+04	-4.981e+04	-4482.87	-2.859e+04	3.102e+04
		246	9.61	5.14	-17.98	2.83	-15.67	6.94	1.544e+04	-5.427e+04	1523.04	-4.034e+04	2.787e+04
		195	7.56	0.95	-11.92	0.39	-11.35	2.64	1.745e+04	-3.898e+04	9358.18	-3.089e+04	1.978e+04
189	5	204	12.40	14.08	-21.11	8.20	-15.22	13.13	5.403e+04	-4.007e+04	1.600e+04	-2041.29	4.618e+04
		231	12.42	13.98	-21.75	9.38	-17.14	11.97	4.353e+04	-5.103e+04	4408.92	-1.190e+04	4.657e+04
		246	13.10	12.14	-24.75	8.24	-20.85	11.35	3.654e+04	-6.206e+04	8983.25	-3.451e+04	4.424e+04
		195	9.50	2.83	-15.35	1.11	-13.63	5.33	3.057e+04	-4.168e+04	1.191e+04	-2.303e+04	3.162e+04
190	3	246	11.54	5.27	-21.76	4.12	-20.61	-5.45	2.487e+04	-6.060e+04	2.326e+04	-5.899e+04	-1.160e+04
		37	5.22	10.13	-14.34	2.73	-6.93	-11.24	-1.694e+04	-4.004e+04	-1.871e+04	-3.827e+04	6150.10
		245	14.93	4.32	-19.08	0.40	-15.15	-8.74	3.319e+04	-7.801e+04	2.779e+04	-7.261e+04	-2.390e+04
		216	8.75	4.06	-13.62	2.95	-12.50	-4.30	1.528e+04	-4.865e+04	1.484e+04	-4.821e+04	-5332.27
190	4	246	10.64	2.79	-19.95	2.06	-19.21	-4.02	1.781e+04	-5.963e+04	1.557e+04	-5.738e+04	-1.300e+04
		37	5.24	10.88	-14.13	3.16	-6.41	-11.55	-2.130e+04	-4.027e+04	-2.232e+04	-3.924e+04	4290.75
		245	13.61	1.52	-17.10	-1.93	-13.65	-7.24	2.529e+04	-7.487e+04	1.958e+04	-6.916e+04	-2.322e+04
		216	8.15	3.27	-12.75	2.06	-11.53	-4.24	1.037e+04	-4.794e+04	9426.27	-4.700e+04	-7349.47
190	5	246	14.71	10.65	-26.80	8.54	-24.68	-8.65	4.204e+04	-6.890e+04	4.131e+04	-6.816e+04	-8988.69
		37	5.84	9.46	-15.82	2.31	-8.67	-11.39	-6410.17	-4.162e+04	-1.066e+04	-3.737e+04	1.147e+04
		245	19.32	10.11	-24.32	4.96	-19.16	-12.29	5.330e+04	-9.257e+04	4.828e+04	-8.755e+04	-2.660e+04
		216	11.15	6.00	-16.32	4.95	-15.28	-4.71	2.845e+04	-5.525e+04	2.844e+04	-5.524e+04	-824.33
191	3	27	19.73	30.87	-27.59	30.59	-27.30	4.06	1.185e+05	-2.046e+04	1.158e+05	-1.777e+04	1.914e+04
		177	12.12	29.82	-17.60	28.71	-16.49	-7.16	7.656e+04	-5819.00	6.439e+04	6352.79	-2.923e+04
		232	10.84	25.61	-19.79	24.63	-18.80	-6.62	7.258e+04	3100.97	7.075e+04	4931.51	-1.113e+04
		230	5.77	13.27	-21.37	11.60	-19.70	-7.42	1.930e+04	-2.425e+04	3253.18	-8204.94	-2.100e+04
191	4	27	17.79	20.57	-23.77	20.55	-23.74	1.05	1.031e+05	-2.470e+04	1.006e+05	-2.222e+04	1.765e+04
		177	9.93	21.96	-15.63	21.23	-14.91	-5.19	5.507e+04	-1.700e+04	4.383e+04	-5763.03	-2.614e+04
		232	9.35	18.94	-18.55	17.87	-17.48	-6.24	5.747e+04	-7146.98	5.578e+04	-5453.34	-1.032e+04
		230	5.63	10.95	-18.59	9.90	-17.53	-5.49	1.137e+04	-2.988e+04	-1312.22	-1.720e+04	-1.903e+04
191	5	27	26.00	54.09	-37.08	52.86	-35.85	10.50	1.656e+05	-1.002e+04	1.623e+05	-6706.25	2.391e+04
		177	18.68	47.58	-22.73	45.61	-20.75	-11.63	1.312e+05	1.903e+04	1.155e+05	3.481e+04	-3.901e+04
		232	15.67	40.80	-23.36	39.86	-22.42	-7.71	1.137e+05	2.698e+04	1.113e+05	2.942e+04	-1.433e+04

		230	7.36	18.93	-28.33	15.76	-25.16	-11.82	3.902e+04	-1.512e+04	1.348e+04	1.042e+04	-2.702e+04
192	3	136	1.71	-0.30	-13.17	-5.24	-8.23	6.25	4334.98	-8150.00	1257.06	-5072.08	5380.91
		157	7.12	5.72	-16.83	-5.32	-5.79	11.27	3.062e+04	-2.339e+04	1.857e+04	-1.135e+04	2.248e+04
		24	7.60	-0.41	-21.28	-21.19	-0.50	1.36	-5532.92	-5.299e+04	-3.099e+04	-2.754e+04	-2.367e+04
192	4	136	1.85	-0.92	-13.10	-5.34	-8.68	5.86	2889.35	-1.021e+04	-1635.52	-5688.93	6230.21
		157	6.63	3.29	-15.59	-6.92	-5.37	9.41	2.607e+04	-2.445e+04	1.352e+04	-1.190e+04	2.182e+04
		24	6.39	2.91	-17.20	-16.44	2.15	3.83	-7805.52	-4.591e+04	-2.893e+04	-2.478e+04	-1.894e+04
192	5	136	1.84	0.98	-14.03	-5.32	-7.73	7.41	8971.46	-4751.13	8198.24	-3977.91	3164.30
		157	8.95	11.20	-20.49	-2.35	-6.94	15.68	4.403e+04	-2.292e+04	3.244e+04	-1.133e+04	2.533e+04
		24	10.98	-5.51	-32.52	-32.02	-6.00	-3.61	1699.25	-7.181e+04	-3.618e+04	-3.393e+04	-3.674e+04
193	2	35	10.40	-6.30	-23.52	-23.37	-6.45	1.57	6.197e+04	-1.208e+04	4.909e+04	805.48	-2.807e+04
		202	6.41	-2.54	-11.06	-6.78	-6.82	-4.26	-1.036e+04	-4.659e+04	-2.840e+04	-2.854e+04	-1.811e+04
		233	8.17	3.53	-11.85	-3.63	-4.70	-7.67	-3211.99	-5.560e+04	-3.605e+04	-2.277e+04	-2.534e+04
193	3	35	22.21	36.03	-19.22	29.64	-12.83	-17.67	1.449e+05	-3346.39	1.393e+05	2250.61	-2.825e+04
		202	4.48	11.71	-24.41	-2.34	-10.36	-17.61	1.832e+04	-1.494e+04	7766.70	-4385.92	-1.549e+04
		233	2.27	-0.55	-19.76	-9.64	-10.68	-9.59	-1.071e+04	-1.669e+04	-1.541e+04	-1.198e+04	-2449.72
193	4	35	20.19	23.91	-16.17	18.77	-11.03	-13.39	1.313e+05	-4508.89	1.252e+05	1604.57	-2.816e+04
		202	4.51	8.58	-20.81	-3.01	-9.22	-14.36	1.412e+04	-1.945e+04	2565.01	-7898.03	-1.595e+04
		233	2.94	0.18	-17.36	-8.10	-9.09	-8.76	-9700.33	-2.201e+04	-1.823e+04	-1.348e+04	-5675.52
194	3	273	14.56	6.67	-11.91	-3.42	-1.82	9.26	5572.34	-9.402e+04	3778.59	-9.223e+04	1.324e+04
		126	10.27	13.62	-1.04	-1.02	13.60	-0.52	3356.01	-6.625e+04	3180.38	-6.608e+04	-3492.02
		251	11.91	16.85	0.68	0.68	16.85	-0.15	342.33	-7.866e+04	-811.73	-7.750e+04	9478.24
		272	12.13	2.42	-6.86	-4.77	0.33	-3.88	1189.04	-8.013e+04	-2020.01	-7.693e+04	1.583e+04
194	4	273	13.76	4.98	-11.34	-2.87	-3.50	8.15	5373.67	-8.880e+04	4024.21	-8.745e+04	1.119e+04
		126	9.81	10.50	-1.01	-0.99	10.47	-0.50	3173.23	-6.340e+04	2998.71	-6.322e+04	-3404.01
		251	11.42	13.18	0.67	0.67	13.18	0.01	386.11	-7.552e+04	-650.10	-7.448e+04	8807.75
		272	11.60	0.75	-6.62	-4.12	-1.76	-3.49	1269.04	-7.659e+04	-1384.50	-7.394e+04	1.413e+04
194	5	273	17.75	10.65	-14.40	-4.75	1.00	12.19	7014.69	-1.146e+05	3936.85	-1.115e+05	1.910e+04
		126	12.26	20.59	-1.22	-1.21	20.57	-0.60	4210.80	-7.884e+04	3996.91	-7.862e+04	-4209.23
		251	14.15	25.15	0.77	0.78	25.14	-0.47	481.40	-9.331e+04	-1089.55	-9.174e+04	1.204e+04
		272	14.51	6.07	-8.39	-6.44	4.12	-4.95	1284.88	-9.578e+04	-3471.17	-9.102e+04	2.095e+04
195	3	171	17.34	7.17	-30.81	6.59	-30.23	-4.65	-6.088e+04	-1.323e+05	-6.129e+04	-1.319e+05	-5423.72
		77	49.01	17.00	-57.78	8.27	-49.05	-24.02	-9.434e+04	-3.617e+05	-9.498e+04	-3.611e+05	-1.309e+04
		265	25.05	-0.91	-41.81	-6.46	-36.26	-14.00	-1.118e+05	-1.906e+05	-1.286e+05	-1.739e+05	-3.221e+04
195	4	171	16.75	3.58	-27.26	3.17	-26.85	-3.54	-6.501e+04	-1.281e+05	-6.523e+04	-1.278e+05	-3648.88
		77	46.01	11.56	-49.72	4.51	-42.67	-19.56	-9.665e+04	-3.419e+05	-9.691e+04	-3.416e+05	-7894.06
		265	23.53	-2.96	-36.68	-7.48	-32.17	-11.48	-1.090e+05	-1.786e+05	-1.241e+05	-1.635e+05	-2.866e+04
195	5	171	20.35	14.68	-40.19	13.71	-39.23	-7.21	-5.567e+04	-1.533e+05	-5.664e+04	-1.523e+05	-9655.55
		77	59.85	28.76	-77.97	16.02	-65.24	-34.60	-9.577e+04	-4.356e+05	-9.785e+04	-4.335e+05	-2.648e+04
		265	30.69	2.88	-55.11	-5.10	-47.13	-19.98	-1.281e+05	-2.342e+05	-1.498e+05	-2.124e+05	-4.284e+04
196	3	263	38.05	-1.91	-48.23	-12.12	-38.02	-19.20	-1.511e+05	-2.913e+05	-1.716e+05	-2.708e+05	-4.950e+04
		264	36.57	-0.58	-58.71	-22.23	-37.07	-28.10	-1.675e+05	-2.778e+05	-2.124e+05	-2.328e+05	-5.420e+04
		309	23.89	-0.35	-40.65	-15.49	-25.52	-19.52	-1.164e+05	-1.804e+05	-1.702e+05	-1.266e+05	-2.340e+04
		333	23.87	-3.86	-41.39	-6.78	-38.46	-10.06	-1.164e+05	-1.801e+05	-1.477e+05	-1.488e+05	-3.188e+04
196	4	263	35.38	-3.95	-41.61	-12.25	-33.31	-15.61	-1.446e+05	-2.708e+05	-1.624e+05	-2.530e+05	-4.388e+04
		264	33.81	-2.73	-50.86	-20.72	-32.87	-23.28	-1.581e+05	-2.564e+05	-1.980e+05	-2.165e+05	-4.830e+04
		309	22.23	-2.43	-35.36	-15.37	-22.43	-16.08	-1.103e+05	-1.675e+05	-1.598e+05	-1.180e+05	-1.958e+04
		333	22.19	-5.88	-36.14	-7.96	-34.06	-7.65	-1.121e+05	-1.666e+05	-1.400e+05	-1.387e+05	-2.728e+04
196	5	263	47.34	1.72	-65.03	-13.04	-50.28	-27.70	-1.782e+05	-3.622e+05	-2.065e+05	-3.339e+05	-6.637e+04
		264	46.04	3.31	-78.69	-27.14	-48.25	-39.61	-2.025e+05	-3.505e+05	-2.631e+05	-2.899e+05	-7.279e+04
		309	29.80	3.46	-54.30	-17.21	-33.63	-27.69	-1.399e+05	-2.259e+05	-2.088e+05	-1.571e+05	-3.434e+04
		333	29.73	-0.48	-54.97	-5.27	-50.18	-15.43	-1.363e+05	-2.258e+05	-1.773e+05	-1.848e+05	-4.461e+04
197	3	1	5.73	43.53	-5.68	9.13	28.72	22.57	4.093e+04	9099.27	3.444e+04	1.559e+04	1.283e+04
		334	10.38	7.59	-20.11	7.35	-19.86	2.58	2.695e+04	-5.109e+04	-3.696e+04	1.283e+04	-3.005e+04
		247	5.14	10.89	-14.68	-11.92	8.13	7.94	6882.33	-2.971e+04	-2.970e+04	6865.67	780.60
		135	9.73	1.13	-28.58	-21.47	-5.99	-12.68	2735.27	-6.254e+04	-5.543e+04	-4372.45	-2.033e+04
197	4	1	4.69	40.08	-5.86	5.79	28.43	19.99	3.384e+04	8899.62	2.797e+04	1.477e+04	1.058e+04
		334	9.87	5.65	-19.71	5.31	-19.37	2.93	2.394e+04	-4.988e+04	-3.877e+04	1.283e+04	-2.640e+04
		247	5.09	10.26	-14.42	-11.94	7.79	7.41	6144.96	-2.990e+04	-2.989e+04	6140.38	406.15
		135	8.99	0.56	-26.39	-19.89	-5.94	-11.54	1555.37	-5.828e+04	-5.260e+04	-4118.53	-1.753e+04
197	5	1	9.00	54.11	-6.38	16.16	31.57	29.25	6.401e+04	1.261e+04	5.549e+04	2.113e+04	1.911e+04
		334	12.78	11.90	-22.52	11.77	-22.39	2.12	3.735e+04	-5.952e+04	-3.648e+04	1.430e+04	-4.125e+04
		247	5.52	12.98	-16.38	-12.83	9.43	9.57	9649.33	-3.030e+04	-3.025e+04	9595.90	1460.19
		135	12.20	2.27	-35.01	-26.18	-6.56	-15.85	5366.58	-7.734e+04	-6.600e+04	-5976.37	-2.845e+04
198	3	170	13.62	-2.33	-19.48	-18.51	-3.30	-3.97	-2.015e+04	-9.861e+04	-9.828e+04	-2.048e+04	-5080.83
		267	13.71	0.02	-17.34	-15.73	-1.59	-5.04	1.032e+04	-8.521e+04	-8.190e+04	7008.19	-1.746e+04
		334	7.35	1.25	-2.79	0.25	-1.79	-1.74	-956.06	-4.942e+04	-4.942e+04	-957.59	-272.16
		1	16.86	14.76	-17.99	13.59	-16.82	-6.08	9.976e+04	-2.180e+04	2.770e+04	5.026e+04	-5.973e+04
198	4	170	12.83	-2.39	-17.31	-16.33	-3.37	-3.70	-2.117e+04	-9.364e+04	-9.353e+04	-2.128e+04	-2873.98
		267	12.66	-1.83	-15.96	-15.21	-2.59	-3.17	6734.71	-8.031e+04	-7.819e+04	4613.22	-1.342e+04
		334	7.37	0.26	-2.25	-1.08	-0.92	-1.25	-843.01	-4.954e+04	-4.948e+04	-900.40	1670.59
		1	14.87	9.97	-18.31	9.71	-18.05	-2.69	8.828e+04	-1.881e+04	2.185e+04	4.762e+04	-5.197e+04
198	5	170	16.55	-2.33	-25.24	-24.16	-3.40	-4.84	-2.107e+04	-1.186e+05	-1.175e+05	-2.217e+04	-1.031e+04
		267	17.40	3.85	-21.74	-18.04	0.15	-9.00	1.934e+04	-1.043e+05	-9.753e+04	1.253e+04	-2.822e+04
		334	8.12	3.81	-4.65	2.73	-3.57	-2.81	-528.93	-5.428e+04	-5.392e+04	-881.65	-4339.67
		1	23.08	26.03	-19.86	22.02	-15.85	-12.96	1.371e+05	-2.835e+04	4.622e+04	6.252e+04	-8.232e+04
199	3	267	13.96	1.24	-16.61	-15.46	0.09	4.38	4579.50	-9.013e+04	-7.355e+04	-1.200e+04	3.599e+04

		269	13.38	0.48	-16.04	-14.38	-1.18	4.96	1.364e+04-8.108e+04-5.337e+04-1.407e+04-1.309e+04
		268	8.99	1.25	-3.45	1.24	-3.44	0.21	5341.78-5.706e+04-3.865e+04-1.307e+04-2.846e+04
		334	8.42	0.90	-6.04	-1.99	-3.15	-3.42	1.705e+04-4.554e+04-3.944e+04-1.095e+04-1.856e+04
199	4	267	13.07	-7.34e-04	-15.29	-13.91	-1.38	4.38	2020.01-8.559e+04-6.833e+04-1.524e+04-3.485e+04
		269	12.59	-0.14	-14.95	-13.20	-1.89	4.77	1.205e+04-7.680e+04-4.884e+04-1.591e+04-1.26e+04
		268	8.76	0.79	-3.81	0.65	-3.67	0.79	4497.36-5.599e+04-3.669e+04-1.480e+04-2.819e+04
		334	8.03	-0.75	-5.61	-2.15	-4.21	-2.20	1.473e+04-4.456e+04-3.709e+04-7.265e+04-1.967e+04
199	5	267	17.36	3.82	-20.68	-19.73	2.87	4.73	1.066e+04-1.093e+05-9.248e+04-6.188e+04-4.169e+04
		269	16.50	1.75	-19.53	-17.85	0.07	5.74	1.919e+04-9.850e+04-6.836e+04-1.095e+04-5.137e+04
		268	10.44	2.57	-3.42	2.45	-3.29	-0.85	7935.66-6.515e+04-4.668e+04-1.054e+04-3.176e+04
		334	10.24	4.35	-7.63	-1.87	-1.42	-5.99	2.489e+04-5.217e+04-4.777e+04-2.049e+04-1.787e+04
200	3	268	9.38	-0.84	-2.57	-2.15	-1.26	0.74	7736.82-5.828e+04-3.645e+04-1.409e+04-3.106e+04
		269	13.39	0.93	-13.05	-8.02	-4.10	-6.71	1.555e+04-8.001e+04-5.154e+04-1.291e+04-4.370e+04
		248	9.08	1.85	-0.93	1.70	-0.78	0.63	2548.65-5.912e+04-5.529e+04-1.274e+04-1.487e+04
		133	7.03	3.09	0.53	2.37	1.26	1.15	-533.83-4.704e+04-4.083e+04-6.745e+04-1.582e+04
200	4	268	9.13	-1.15	-3.14	-3.10	-1.20	0.30	6807.93-5.715e+04-3.764e+04-1.270e+04-2.945e+04
		269	12.59	0.61	-12.53	-8.11	-3.82	-6.21	1.371e+04-7.580e+04-5.091e+04-1.118e+04-4.010e+04
		248	8.88	0.76	-1.06	0.72	-1.02	0.28	2414.00-5.788e+04-5.432e+04-1.150e+04-1.422e+04
		133	6.99	2.39	0.50	1.69	1.20	0.91	-425.48-4.676e+04-4.070e+04-6.483e+04-1.562e+04
200	5	268	10.92	0.68	-2.73	-0.55	-1.49	1.64	1.088e+04-6.664e+04-3.762e+04-1.845e+04-1.642e+04
		269	16.52	1.65	-15.19	-8.53	-5.01	-8.24	2.181e+04-9.706e+04-5.761e+04-1.763e+04-5.598e+04
		248	10.35	4.07	-0.81	3.67	-0.41	1.35	3227.38-6.718e+04-6.252e+04-1.436e+04-1.751e+04
		133	7.81	4.75	0.60	3.85	1.49	1.71	-753.89-5.232e+04-4.508e+04-7.996e+04-1.792e+04
201	3	10	6.55	13.48	-2.09	2.96	8.42	7.29	1.051e+04-4.757e+04-3.762e+04-2.045e+04-1.642e+04
		266	19.29	-1.74	-33.42	-14.50	-20.65	-15.54	2.809e+04-1.398e+05-1.358e+05-3.207e+04-2.070e+04
		267	11.96	0.96	-7.69	-7.69	0.96	-0.04	8567.02-7.485e+04-7.384e+04-7.559e+04-9.114e+04
		170	15.90	0.02	-25.05	-19.10	-5.93	-10.66	562.57-1.049e+05-8.907e+04-1.525e+04-3.765e+04
201	4	10	6.47	12.97	-3.93	0.93	8.11	7.64	1.397e+04-4.809e+04-4.020e+04-2.186e+04-1.439e+04
		266	17.90	-3.53	-30.43	-13.80	-20.16	-13.07	3.010e+04-1.310e+05-1.284e+05-3.276e+04-1.618e+04
		267	11.28	0.50	-7.81	-7.73	0.42	0.80	5945.69-7.177e+04-7.119e+04-5.370e+04-6.660e+04
		170	14.47	-1.45	-22.69	-17.89	-6.25	-8.88	-3643.19-9.753e+04-8.496e+04-1.622e+04-3.198e+04
201	5	10	7.34	15.41	1.08	6.76	9.73	7.01	-977.94-4.900e+04-3.265e+04-1.733e+04-2.276e+04
		266	24.39	1.53	-41.94	-17.12	-23.28	-21.51	2.613e+04-1.734e+05-1.655e+05-3.404e+04-3.318e+04
		267	14.64	2.31	-8.63	-8.35	2.03	-1.72	1.546e+04-8.858e+04-8.610e+04-1.298e+04-1.588e+04
		170	20.53	2.84	-31.47	-22.83	-5.80	-14.89	9062.62-1.310e+05-1.058e+05-1.616e+04-5.382e+04
202	3	269	14.53	-2.70	-23.20	-5.42	-20.47	-6.96	2.027e+04-8.504e+04-7.083e+04-6.051e+04-3.599e+04
		2	19.56	29.68	-29.53	-28.87	29.03	-6.20	3.336e+04-1.090e+05-1.048e+05-2.916e+04-2.411e+04
		132	3.92	-1.44	-6.80	-1.46	-6.77	-0.33	4701.96-2.339e+04-9.563e+04-9.126e+04-1.405e+04
		248	9.02	5.24	-2.22	-1.92	4.94	-1.47	2556.16-5.868e+04-5.750e+04-1.371e+04-8.433e+04
202	4	269	13.64	-3.62	-21.81	-5.66	-19.77	-5.74	1.794e+04-8.054e+04-6.917e+04-6.562e+04-3.148e+04
		2	17.88	28.70	-26.19	-25.21	27.72	-7.28	3.130e+04-9.919e+04-9.495e+04-2.706e+04-2.314e+04
		132	3.55	-3.71	-6.36	-3.81	-6.26	0.51	2013.85-2.253e+04-1.184e+04-8.671e+04-1.217e+04
		248	8.74	5.35	-3.13	-2.65	4.88	-1.94	2653.20-5.676e+04-5.565e+04-1.543e+04-8.043e+04
202	5	269	18.07	-1.13	-27.97	-5.44	-23.66	-9.85	2.783e+04-1.039e+05-8.166e+04-5.614e+04-4.932e+04
		2	24.96	34.43	-38.51	-38.19	34.11	-4.83	4.353e+04-1.384e+05-1.337e+05-3.887e+04-2.875e+04
		132	5.37	3.04	-8.66	2.73	-8.35	-1.88	1.211e+04-2.795e+04-4.114e+04-1.173e+04-1.967e+04
		248	10.41	5.60	-0.82	-0.73	5.52	-0.73	3185.32-6.767e+04-6.616e+04-1.669e+04-1.025e+04
203	3	2	9.20	67.34	-5.75	23.60	37.99	35.83	6.796e+04-2.745e+04-4.264e+04-5.278e+04-1.961e+04
		270	13.36	4.00	-34.20	3.22	-33.42	-5.41	901.10-8.858e+04-6.571e+04-2.197e+04-3.903e+04
		249	8.38	19.94	-4.00	6.31	9.62	11.85	1.622e+04-4.582e+04-4.507e+04-1.547e+04-6.761e+04
		132	11.87	-0.79	-30.96	-25.69	-6.07	-11.46	-3447.32-7.976e+04-6.858e+04-1.462e+04-2.698e+04
203	4	2	7.88	58.95	-6.29	17.71	34.94	31.46	5.834e+04-2.452e+04-3.484e+04-4.802e+04-1.558e+04
		270	12.40	1.70	-30.80	1.09	-30.19	-4.41	113.31-8.262e+04-6.445e+04-1.805e+04-3.425e+04
		249	8.13	17.05	-4.33	4.12	8.60	10.46	1.449e+04-4.532e+04-4.480e+04-1.398e+04-5.513e+04
		132	10.85	-1.14	-28.17	-23.66	-5.64	-10.08	-3986.55-7.335e+04-6.382e+04-1.351e+04-2.387e+04
203	5	2	13.45	89.23	-5.60	36.56	47.07	47.12	9.947e+04-3.846e+04-6.717e+04-7.076e+04-3.045e+04
		270	16.98	8.61	-43.60	7.43	-42.42	-7.75	3511.06-1.112e+05-7.511e+04-3.262e+04-5.330e+04
		249	9.72	27.17	-3.87	10.93	12.37	15.50	2.223e+04-5.051e+04-4.909e+04-2.081e+04-1.100e+04
		132	15.08	-0.23	-38.93	-31.76	-7.40	-15.04	-2980.04-1.007e+05-8.446e+04-1.924e+04-3.640e+04
204	3	270	9.85	3.74	-6.90	1.83	-4.99	4.08	9598.92-6.012e+04-5.449e+04-3.966e+04-1.900e+04
		271	13.32	0.68	-8.65	-5.78	-2.19	-4.31	5227.67-8.586e+04-8.395e+04-3.316e+04-1.305e+04
		130	9.68	11.02	2.72	11.02	2.72	0.06	6037.66-6.099e+04-6.055e+04-5.595e+04-5.425e+04
		249	8.72	6.64	-3.82	6.48	-3.65	1.30	-3239.70-5.941e+04-5.909e+04-3.553e+04-4.185e+04
204	4	270	9.45	2.09	-6.78	-0.32	-4.38	3.94	8508.68-5.817e+04-5.380e+04-4.143e+04-1.649e+04
		271	12.64	0.10	-8.67	-6.74	-1.83	-3.64	4610.83-8.164e+04-8.031e+04-3.283e+04-1.062e+04
		130	9.34	8.64	2.36	8.64	2.36	0.17	5516.18-5.910e+04-5.864e+04-5.057e+04-5.427e+04
		249	8.55	4.56	-3.35	4.41	-3.19	1.09	-2709.02-5.809e+04-5.782e+04-2.974e+04-3.828e+04
204	5	270	11.72	7.51	-8.16	5.94	-6.59	4.70	1.349e+04-7.010e+04-6.094e+04-4.328e+04-2.612e+04
		271	16.17	2.19	-9.81	-4.58	-3.05	-5.95	7407.02-1.037e+05-1.001e+05-3.800e+04-1.969e+04
		130	11.40	16.40	3.62	16.40	3.63	-0.13	7973.60-7.122e+04-7.074e+04-7.492e+04-6.150e+04
		249	9.91	11.09	-5.03	10.88	-4.83	1.80	-4564.37-6.776e+04-6.727e+04-5.056e+04-5.552e+04
205	3	271	12.97	-1.61	-13.86	-1.63	-13.83	0.56	1277.20-8.571e+04-7.386e+04-1.056e+04-2.983e+04
		3	17.13	18.99	-25.54	-14.50	7.95	-19.23	3.500e+04-9.182e+04-9.138e+04-3.457e+04-7.421e+04
		250	6.43	5.95	-4.16	4.72	-2.94	-3.30	-9890.26-4.680e+04-4.662e+04-1.007e+04-2.597e+04
		130	9.73	10.52	0.88	10.33	1.07	1.34	5550.78-6.160e+04-6.132e+04-5.270e+04-4.331e+04
205	4	271	12.39	-3.29	-12.65	-3.35	-12.59	0.77	1026.88-8.202e+04-7.208e+04-8.906e+04-2.695e+04
		3	15.73	17.70	-23.55	-13.10	7.25	-17.94	3.258e+04-8.399e+04-8.374e+04-3.234e+04-5.329e+04

		250	6.37	3.34	-3.98	1.87	-2.51	-2.94	-9201.08-4.625e+04-4.615e+04	-9303.53	-1945.57
		130	9.38	8.39	0.86	8.27	0.97	0.92	5310.54-5.944e+04-5.916e+04	5031.47	-4241.84
205	5	271	15.58	1.36	-17.45	1.36	-17.45	0.25	1939.03-1.027e+05-8.538e+04-1.540e+04-3.891e+04		
		3	21.74	23.23	-31.63	-18.39	9.99	-23.47	4.562e+04-1.156e+05-1.146e+054.462e+04-1.266e+04		
		250	7.05	11.50	-5.17	10.34	-4.01	-4.26	-1.266e+04-5.167e+04-5.124e+04-1.309e+04	-4089.16	
		130	11.47	15.43	1.00	15.08	1.35	2.22	6992.11-7.222e+04-7.189e+04	6665.28	-5077.45
206	3	274	13.69	7.05	-54.06	-52.70	5.68	9.04	-3.023e+04-1.022e+05-3.345e+04-9.898e+041.486e+04		
		124	9.37	27.18	-1.69	10.99	14.50	-14.33	1.858e+04-5.092e+04 1.562e+04-4.796e+04-1.404e+04		
		252	12.97	-1.41	-30.54	-6.24	-25.71	10.84	-1.323e+04-9.134e+04-1.766e+04-8.691e+041.807e+04		
		4	14.69	88.02	-7.25	51.35	29.42	-46.36	9.111e+04 -7726.92 7.600e+04 7376.25-3.556e+04		
206	4	274	12.95	3.85	-47.95	-46.85	2.75	7.46	-2.598e+04-9.600e+04-2.806e+04-9.393e+041.188e+04		
		124	8.86	23.29	-2.45	9.81	11.02	-12.86	1.674e+04-4.871e+04 1.431e+04-4.629e+04-1.237e+04		
		252	11.92	-1.71	-28.65	-5.70	-24.66	9.56	-1.271e+04-8.413e+04-1.631e+04-8.053e+041.563e+04		
		4	13.14	77.58	-8.20	46.27	23.11	-41.30	8.087e+04 -8095.43 6.878e+04 3994.63-3.049e+04		
206	5	274	16.81	13.49	-70.57	-68.58	11.50	12.78	-4.167e+04-1.266e+05-4.839e+04-1.199e+052.292e+04		
		124	11.34	37.05	-0.66	14.22	22.17	-18.43	2.505e+04-5.975e+04 2.061e+04-5.531e+04-1.889e+04		
		252	16.33	-0.95	-37.14	-7.85	-30.24	14.22	-1.612e+04-1.149e+05-2.312e+04-1.079e+052.534e+04		
		4	19.73	115.87	-6.47	65.72	43.67	-60.17	1.254e+05 -4927.66 1.018e+05 1.868e+04-5.020e+04		
207	3	7	15.18	46.96	-40.35	21.14	-14.53	39.85	-3.215e+04-1.120e+05-3.750e+04-1.066e+051.997e+04		
		325	17.20	-4.79	-14.83	-14.71	-4.91	1.08	-7.112e+04-1.320e+05-8.917e+04-1.110e+05-2.571e+04		
		315	16.33	12.74	-30.18	-24.66	7.21	14.38	-8.001e+04-1.238e+05-8.091e+04-1.229e+05	-6199.37	
		310	29.20	-11.95	-71.58	-70.41	-13.13	8.29	-1.830e+05-2.019e+05-2.019e+05-1.830e+05	317.51	
207	4	7	13.80	40.85	-36.72	19.62	-15.49	34.58	-3.220e+04-1.025e+05-3.585e+04-9.887e+041.561e+04		
		325	16.06	-6.18	-12.56	-12.55	-6.18	0.23	-6.635e+04-1.232e+05-8.262e+04-1.070e+05-2.571e+04		
		315	15.41	9.06	-26.23	-21.25	4.08	12.28	-7.293e+04-1.174e+05-7.407e+04-1.162e+05	-7004.31	
		310	26.88	-12.88	-62.53	-61.57	-13.84	6.84	-1.715e+05-1.835e+05-1.835e+05-1.715e+05	263.55	
207	5	7	19.45	62.67	-51.14	25.84	-14.31	53.25	-3.125e+04-1.405e+05-4.137e+04-1.304e+053.169e+04		
		325	21.27	-2.62	-20.57	-20.13	-3.05	2.76	-8.887e+04-1.633e+05-1.132e+05-1.390e+05-3.491e+04		
		315	19.84	20.62	-40.41	-33.32	13.54	19.55	-1.027e+05-1.490e+05-1.034e+05-1.484e+05	-5399.66	
		310	37.05	-11.44	-95.01	-93.33	-13.12	11.75	-2.254e+05-2.607e+05-2.607e+05-2.254e+05	930.18	
208	3	4	17.31	57.76	-19.94	42.36	-4.54	30.98	6.274e+04-6.878e+04 6.251e+04-6.855e+04	5467.66	
		252	7.39	-6.73	-12.00	-8.45	-10.28	-2.47	-1.644e+04-5.508e+04-1.660e+04-5.493e+04	-2455.50	
		126	9.77	17.91	3.94	7.93	13.93	6.31	1.023e+04-5.913e+04 1.022e+04-5.911e+04	974.09	
		273	13.62	1.58	-36.25	-36.22	1.54	1.16	-1.745e+04-9.783e+04-1.954e+04-9.575e+041.278e+04		
208	4	4	15.73	52.23	-18.94	38.39	-5.11	28.17	5.657e+04-6.292e+04 5.649e+04-6.284e+04	3080.82	
		252	7.11	-6.36	-13.09	-7.66	-11.79	-2.66	-1.519e+04-5.278e+04-1.537e+04-5.261e+04	-2538.47	
		126	9.81	15.12	2.97	7.25	10.84	5.81	9414.35-5.669e+04 9410.15-5.668e+04	527.19	
		273	13.04	-0.53	-32.56	-32.54	-0.55	0.84	-1.446e+04-9.290e+04-1.611e+04-9.125e+041.125e+04		
208	5	4	22.42	73.64	-23.79	53.82	-3.96	39.22	8.481e+04-8.549e+04 8.408e+04-8.476e+04 1.112e+04		
		252	8.52	-7.11	-12.32	-10.75	-8.68	-2.39	-2.145e+04-6.416e+04-2.159e+04-6.402e+04	-2467.75	
		126	11.67	24.97	5.85	9.95	20.87	7.85	1.353e+04-6.969e+04 1.348e+04-6.964e+04	2073.01	
		273	16.29	5.53	-46.60	-46.53	5.46	1.84	-2.574e+04-1.185e+05-2.904e+04-1.152e+051.720e+04		
209	3	327	12.93	14.84	-10.51	-2.19	6.52	11.90	1.046e+04-8.033e+04 9953.03-7.983e+04	6743.43	
		122	8.83	8.82	-3.03	-3.01	8.80	0.48	-3132.46-6.005e+04 -3135.70-6.005e+04	429.38	
		253	13.08	20.94	2.72	2.85	20.81	-1.53	3938.46-8.452e+04 2638.84-8.322e+04 1.064e+04		
		275	13.29	2.31	-9.13	-9.13	2.31	0.22	-5813.03-9.120e+04 -8660.49-8.835e+04 1.533e+04		
209	4	327	12.24	11.93	-10.02	-1.77	3.68	10.63	1.007e+04-7.604e+04 9702.56-7.568e+04	5584.77	
		122	8.41	5.98	-2.70	-2.68	5.96	0.47	-2801.49-5.721e+04 -2803.40-5.721e+04	322.06	
		253	12.45	16.44	2.42	2.50	16.35	-1.11	3593.62-8.062e+04 2371.92-7.939e+04 1.007e+04		
		275	12.66	-0.03	-8.00	-7.98	-0.04	0.33	-4743.25-8.660e+04 -7241.74-8.410e+04 1.408e+04		
209	5	327	15.62	21.76	-12.68	-3.15	12.24	15.41	1.290e+04-9.678e+04 1.201e+04-9.590e+04	9828.28	
		122	10.49	14.78	-3.92	-3.91	14.76	0.56	-4269.43-7.139e+04 -4274.53-7.138e+04	584.64	
		253	15.75	31.13	3.55	3.77	30.91	-2.43	5296.53-1.013e+05 3671.75-9.967e+04 1.306e+04		
		275	15.99	6.72	-12.11	-12.11	6.72	0.05	-8580.50-1.103e+05-1.251e+04-1.064e+051.960e+04		
210	3	70	72.88	-5.87	-68.06	-59.03	-14.90	21.91	-1.694e+05-5.457e+05-5.268e+05-1.883e+058.214e+04		
		264	34.84	-0.08	-58.52	-50.82	-7.78	19.76	-1.719e+05-2.624e+05-2.401e+05-1.941e+053.894e+04		
		263	38.57	-2.36	-48.98	-48.23	-3.12	5.90	-1.533e+05-2.952e+05-2.949e+05-1.537e+05	6729.10	
		12	62.13	0.21	-60.87	-55.48	-5.17	17.32	-1.206e+05-4.593e+05-4.591e+05-1.208e+05	8508.88	
210	4	70	67.21	-7.07	-58.08	-50.91	-14.23	17.72	-1.605e+05-5.044e+05-4.877e+05-1.772e+057.386e+04		
		264	32.23	-2.29	-50.83	-44.28	-8.84	16.58	-1.619e+05-2.421e+05-2.219e+05-1.821e+053.482e+04		
		263	35.91	-4.15	-42.29	-41.75	-4.69	4.51	-1.464e+05-2.749e+05-2.747e+05-1.466e+05	5386.83	
		12	57.59	-2.60	-52.48	-47.90	-7.17	14.40	-1.160e+05-4.270e+05-4.269e+05-1.161e+05	5472.08	
210	5	70	91.63	-4.25	-92.22	-78.98	-17.49	31.46	-2.038e+05-6.838e+05-6.583e+05-2.292e+051.075e+05		
		264	43.77	3.90	-78.40	-67.74	-6.77	27.64	-2.086e+05-3.309e+05-3.021e+05-2.375e+055.192e+04		
		263	47.93	1.03	-65.87	-64.66	-0.18	8.92	-1.814e+05-3.668e+05-3.662e+05-1.819e+051.036e+04		
		12	77.18	5.30	-82.90	-75.17	-2.43	24.93	-1.392e+05-5.672e+05-5.666e+05-1.398e+051.638e+04		
211	3	277	12.79	5.64	-12.61	-6.44	-0.52	8.63	-3256.89-8.675e+04 -3387.14-8.662e+04	-3295.27	
		255	12.44	19.38	-0.35	-0.20	19.22	1.73	1471.30-8.155e+04 254.44-8.034e+04	-9977.44	
		121	11.20	18.91	-0.42	-0.39	18.88	0.72	3037.23-7.249e+04 2935.77-7.239e+04	2766.30	
		276	14.08	6.92	-8.55	-4.67	3.03	-6.71	673.04-9.340e+04 521.58-9.325e+04	-3771.69	
211	4	277	12.18	3.56	-11.75	-5.53	-2.66	7.52	-2326.82-8.229e+04 -2470.75-8.215e+04	-3383.52	
		255	11.85	14.96	-0.33	-0.21	14.85	1.33	1438.80-7.778e+04 287.03-7.663e+04	-9482.54	
		121	10.66	14.94	-0.36	-0.33	14.91	0.66	2899.77-6.908e+04 2807.08-6.899e+04	2581.31	
		276	13.38	4.51	-8.05	-3.89	0.36	-5.91	1103.93-8.860e+04 989.82-8.849e+04	-3197.35	
211	5	277	15.36	10.20	-15.74	-8.75	3.21	11.50	-5348.06-1.047e+05 -5453.90-1.046e+05	-3241.29	
		255	14.93	29.24	-0.43	-0.20	29.00	2.63	1867.57-9.762e+04 344.61-9.610e+04-1.221e+04		
		121	13.49	27.93	-0.58	-0.55	27.90	0.92	3818.34-8.706e+04 3674.39-8.692e+04	3614.16	

		276	17.00	12.25	-10.69	-6.53	8.10	-8.83	-18.41-1.130e+05	-289.50-1.127e+05	-5527.01
212	3	326	11.37	18.36	-40.11	-37.81	16.06	11.36-2.793e+04-8.534e+04-4.884e+04-6.443e+04-2.762e+04			
		256	11.37	16.98	-0.82	7.19	8.97	-8.86 1.735e+04-6.533e+04	2588.88-5.057e+04-3.166e+04		
		148	7.25	-6.09	-19.69	-7.66	-18.12	4.34-1.546e+04-5.376e+04-1.888e+04-5.034e+04-1.092e+04			
		6	17.75	58.35	-7.98	31.76	18.61	-32.51 8.019e+04-5.360e+04 6.005e+04-3.346e+04-4.784e+04			
212	4	326	10.84	14.55	-35.91	-34.08	12.72	9.42-2.446e+04-8.092e+04-4.323e+04-6.215e+04-2.660e+04			
		256	10.68	14.85	-2.77	6.02	6.06	-8.81 1.534e+04-6.196e+04	1886.43-4.851e+04-2.931e+04		
		148	6.86	-6.01	-19.02	-6.95	-18.08	3.37-1.392e+04-5.064e+04-1.733e+04-4.723e+04-1.065e+04			
		6	16.09	52.26	-8.97	28.33	14.96	-29.88 7.156e+04-4.983e+04 5.414e+04-3.241e+04-4.257e+04			
212	5	326	13.69	27.08	-51.82	-48.42	23.68	16.02-3.831e+04-1.037e+05-6.603e+04-7.598e+04-3.232e+04			
		256	13.81	22.74	2.34	10.02	15.06	-9.89 2.390e+04-7.756e+04	5027.17-5.868e+04-3.948e+04		
		148	8.61	-6.58	-23.28	-9.73	-20.13	6.53-2.081e+04-6.448e+04-2.326e+04-6.090e+04-1.197e+04			
		6	23.04	75.34	-7.09	41.19	27.06	-40.61 1.090e+05-6.399e+04 8.111e+04-3.613e+04-6.358e+04			
213	3	278	14.23	-1.41	-5.04	-1.70	-4.75	0.98 4947.70-9.223e+04-7.231e+04-1.497e+04-3.923e+04			
		326	11.86	17.81	-4.78	13.44	-0.41	8.93 -1690.29-7.926e+04-4.651e+04-3.444e+04-3.831e+04			
		6	16.54	22.67	-51.57	-50.23	21.33	9.90 3.047e+04-9.069e+04-7.082e+04-1.061e+04-4.486e+04			
		292	14.24	2.35	-23.84	-12.34	-9.15	13.00-3.360e+04-1.071e+05-9.192e+04-4.875e+04-2.973e+04			
213	4	278	13.48	-2.88	-4.80	-2.91	-4.77	-0.24 5051.34-8.719e+04-6.779e+04-1.435e+04-3.760e+04			
		326	11.41	13.80	-4.24	10.57	-1.01	6.91 -1637.24-7.642e+04-4.514e+04-3.291e+04-3.689e+04			
		6	15.11	19.22	-46.46	-45.48	18.24	7.96 2.894e+04-8.214e+04-6.226e+04	9059.19-4.259e+04		
		292	13.54	-0.18	-20.93	-12.10	-9.01	10.25-3.065e+04-1.015e+05-8.629e+04-4.589e+04-2.912e+04			
213	5	278	17.26	1.80	-6.71	0.28	-5.19	3.26 5564.51-1.120e+05-8.896e+04-1.749e+04-4.668e+04			
		326	13.99	26.83	-6.26	19.94	0.63	13.44 -2157.72-9.341e+04-5.403e+04-4.154e+04-4.520e+04			
		6	21.23	31.23	-66.10	-63.92	29.05	14.39 3.926e+04-1.163e+05-9.456e+04-1.757e+04-5.388e+04			
		292	17.20	7.15	-31.54	-14.03	-10.37	19.26-4.391e+04-1.299e+05-1.139e+05-5.995e+04-3.349e+04			
214	3	18	19.89	6.77	-19.73	3.01	-15.97	9.24 8.058e+04-7.169e+04 2.299e+04-1.410e+04 7.384e+04			
		286	16.79	3.06	-23.39	-13.49	-6.84	12.80-3.537e+04-1.246e+05-1.091e+05-5.082e+04-3.376e+04			
		287	22.28	6.23	-36.22	-18.21	-11.77	20.98-5.640e+04-1.672e+05-1.191e+05-1.046e+05-4.95e+04			
		152	17.93	7.39	-30.62	-12.27	-10.96	19.00-5.903e+04-1.365e+05-9.684e+04-9.871e+04-4.874e+04			
214	4	18	17.47	1.29	-18.10	-0.46	-16.35	5.55 6.636e+04-6.766e+04 1.333e+04-1.464e+04 6.554e+04			
		286	15.87	1.71	-21.19	-13.08	-6.40	10.95-3.859e+04-1.190e+05-1.069e+05-5.068e+04-2.874e+04			
		287	20.89	2.52	-31.86	-17.54	-11.80	16.95-6.050e+04-1.582e+05-1.155e+05-1.032e+05-4.847e+04			
		152	17.23	4.25	-26.97	-11.54	-11.19	15.61-6.527e+04-1.317e+05-9.681e+04-1.047e+05-5.318e+04			
214	5	18	27.16	18.04	-24.79	9.67	-16.43	16.97 1.216e+05-8.507e+04 4.915e+04-1.264e+04 9.860e+04			
		286	20.58	5.97	-29.58	-15.37	-8.24	17.41-3.145e+04-1.492e+05-1.246e+05-5.605e+04-4.788e+04			
		287	27.51	13.82	-47.49	-20.98	-12.69	30.37-5.150e+04-2.019e+05-1.369e+05-1.165e+05-7.452e+04			
		152	21.31	14.14	-40.05	-14.53	-11.38	27.05-5.075e+04-1.590e+05-1.051e+05-1.047e+05-5.413e+04			
215	3	284	10.88	-1.35	-7.67	-6.55	-2.47	2.41 1.602e+04-6.296e+04-5.873e+04 1.179e+04 1.778e+04			
		283	13.00	-0.19	-14.88	-13.63	-1.45	4.11 1.664e+04-7.666e+04-7.632e+04 1.630e+04 5632.08			
		305	14.41	2.67	-20.93	-14.14	-4.11	10.68 485.60-9.521e+04-9.065e+04 -4074.20 2.038e+04			
		285	13.50	-0.86	-16.06	-11.55	-5.37	6.94 -911.26-8.996e+04-8.098e+04 -9886.37 2.681e+04			
215	4	284	10.34	-2.20	-7.44	-6.99	-2.66	1.48 1.370e+04-6.086e+04-5.796e+04 1.079e+04 1.442e+04			
		283	12.29	-0.71	-13.91	-12.93	-1.69	3.46 1.497e+04-7.301e+04-7.290e+04 1.485e+04 3181.72			
		305	13.37	1.07	-19.05	-13.70	-4.28	8.89 -2310.80-8.971e+04-8.650e+04 -5527.75 1.646e+04			
		285	12.62	-2.17	-14.66	-11.30	-5.53	5.55 -4320.69-8.578e+04-7.909e+04-1.101e+05-2.377e+04			
215	5	284	13.25	0.54	-9.09	-6.28	-2.27	4.38 2.324e+04-7.410e+04-6.608e+04-1.522e+04 2.676e+04			
		283	15.92	0.78	-18.00	-16.09	-1.14	5.68 2.270e+04-9.240e+04-9.122e+04-2.153e+04 1.158e+04			
		305	18.16	5.99	-26.32	-16.21	-4.12	14.98 6944.39-1.167e+05-1.081e+05 -1657.63 3.145e+04			
		285	16.82	1.63	-20.13	-13.01	-5.49	10.21 6459.72-1.081e+05-9.270e+04 -8968.46 3.911e+04			
216	3	312	16.15	2.07	-26.75	-26.68	2.00	1.43-6.132e+04-1.243e+05-6.692e+04-1.178e+05-1.919e+04			
		293	13.10	2.62	-24.00	-22.92	1.54	5.25-3.266e+04-9.872e+04-3.638e+04-9.500e+04-1.522e+04			
		292	14.53	3.48	-23.08	-15.65	-3.96	-11.93-2.872e+04-1.080e+05-2.873e+04-1.080e+05 -844.13			
		311	16.99	5.12	-33.92	-28.69	-0.11	-13.30-7.750e+04-1.298e+05-7.771e+04-1.296e+05 -3250.19			
216	4	312	15.21	-0.29	-23.38	-23.28	-0.39	1.52-5.699e+04-1.170e+05-6.231e+04-1.117e+05-1.707e+04			
		293	12.38	0.44	-21.38	-20.18	-0.75	4.97-2.997e+04-9.318e+04-3.292e+04-9.024e+04-1.333e+04			
		292	13.74	1.23	-20.49	-13.67	-5.59	-10.08-2.610e+04-1.018e+05-2.610e+04-1.018e+05 283.93			
		311	15.96	2.40	-29.60	-25.04	-2.17	-11.19-7.145e+04-1.221e+05-7.151e+04-1.220e+05 -1650.40			
216	5	312	19.75	6.53	-35.54	-35.50	6.49	1.37-7.665e+04-1.520e+05-6.692e+04-1.417e+05-2.585e+04			
		293	15.85	6.89	-31.23	-30.17	5.83	6.28-4.214e+04-1.198e+05-4.808e+04-1.139e+05-2.066e+04			
		292	17.66	7.98	-30.24	-20.80	-1.46	-16.48-3.755e+04-1.318e+05-3.769e+04-1.317e+05 -3673.37			
		311	20.85	10.55	-45.14	-38.16	3.56	-18.44-9.846e+04-1.588e+05-9.931e+04-1.579e+05 -7113.42			
217	3	257	10.08	14.73	-7.47	14.27	-7.01	-3.18 -531.12-6.695e+04-6.596e+04 -1521.65 -8050.52			
		129	10.94	23.90	2.12	21.46	4.56	6.87 2079.26-7.110e+04-6.684e+04 -2184.05-1.714e+04			
		326	13.63	5.48	-6.07	-0.12	-0.47	5.77 5621.95-8.777e+04-8.299e+04 840.15-2.058e+04			
		278	13.19	5.65	-3.77	5.19	-3.32	2.01 621.89-8.739e+04-8.584e+04 -925.77-1.157e+04			
217	4	257	9.70	11.19	-6.85	10.63	-6.30	-3.11 -173.85-6.432e+04-6.341e+04 -1084.75 -7589.26			
		129	10.45	19.53	1.93	17.46	4.00	5.67 1811.49-6.815e+04-6.400e+04 -2337.03-1.652e+04			
		326	12.88	3.31	-5.82	-1.97	-0.53	4.51 5434.52-8.293e+04-7.813e+04 633.71-2.003e+04			
		278	12.57	2.89	-3.09	2.64	-2.83	1.20 872.54-8.323e+04-8.152e+04 -840.25-1.188e+04			
217	5	257	11.79	22.64	-9.41	22.23	-8.99	-3.63 -1258.15-7.840e+04-7.720e+04 -2463.71 -9568.22			
		129	13.09	34.16	2.67	30.81	6.02	9.71 2886.31-8.472e+04-7.975e+04 -2337.03-2.026e+04			
		326	16.56	10.20	-7.43	3.17	-0.40	8.63 6780.56-1.065e+05-1.013e+05 1560.98-2.375e+04			
		278	15.87	11.15	-5.39	10.29	-4.53	3.67 273.88-1.052e+05-1.038e+05 -1134.60-1.211e+04			
218	3	262	8.02	0.28	-1.49	0.28	-1.49	-5.75e-03 -1852.33-5.432e+04-5.418e+04 -2000.64 2785.74			
		125	7.91	2.07	0.17	1.54	0.70	-0.85 5664.99-4.967e+04-4.860e+04 4589.53 -7639.13			
		283	12.52	1.20	-13.65	-12.78	0.32	3.50 1.040e+04-7.731e+04-7.599e+04 9076.87 1.068e+04			
		284	10.45	-1.42	-6.21	-6.21	-1.42	-0.15 1.591e+04-6.020e+04-5.243e+04 8132.31 2.305e+04			

218	4	262	8.00	-0.24	-1.17	-0.24	-1.17	0.05	-1514.39-5.409e+04-5.400e+04	-1603.65	2164.49
		125	7.75	1.42	-0.21	0.74	0.47	-0.80	5171.86-4.886e+04-4.775e+04	4061.15	-7666.67
		283	11.90	1.03	-12.99	-12.22	0.26	3.20	9284.62-7.385e+04-7.305e+04	8487.52	8101.08
		284	9.93	-1.38	-6.94	-6.87	-1.44	-0.59	1.335e+04-5.835e+04-5.247e+04	7474.68	1.967e+04
218	5	262	8.88	1.29	-2.19	1.28	-2.19	-0.11	-2482.56-6.034e+04-5.998e+04	-2843.94	4558.19
		125	9.05	3.60	0.75	3.17	1.18	-1.02	7426.08-5.621e+04-5.505e+04	6270.81	-8495.70
		283	15.18	1.64	-16.05	-14.90	0.49	4.36	1.447e+04-9.264e+04-8.974e+04	1.157e+04	1.738e+04
		284	12.74	-1.40	-5.58	-5.46	-1.52	0.69	2.352e+04-7.052e+04-5.748e+04	1.048e+04	3.250e+04
219	3	281	16.12	1.08	-18.07	-15.05	-1.93	-6.98	1.591e+04-9.800e+04-7.494e+04	-7146.06	-4.577e+04
		324	8.99	16.92	-4.74	15.18	-3.00	5.89	1.218e+04-5.264e+04-1.121e+04	-2.926e+04	-3.113e+04
		20	28.27	16.11	-74.37	-72.16	13.91	-13.96	4.608e+04-1.589e+05-1.123e+05	-537.23	-8.592e+04
		294	11.81	11.08	-26.39	-17.07	1.76	16.20	1972.25-7.737e+04-7.603e+04	614.72	-1.029e+04
219	4	281	15.13	0.73	-16.89	-13.80	-2.35	-6.70	1.451e+04-9.223e+04-6.944e+04	-8278.39	-4.373e+04
		324	8.83	13.54	-4.35	12.26	-3.07	4.61	1.089e+04-5.247e+04-1.275e+04	-2.882e+04	-3.064e+04
		20	25.38	14.58	-65.74	-63.98	12.83	-11.75	4.314e+04-1.415e+05-9.744e+04	-908.67	-7.870e+04
		294	11.05	7.08	-23.57	-16.02	-0.48	13.21	-401.33-7.358e+04-7.154e+04	-2446.39	-1.206e+04
219	5	281	19.93	1.87	-21.96	-18.76	-1.33	-8.13	2.119e+04-1.203e+05-9.412e+04	-4944.82	-5.490e+04
		324	10.23	24.71	-5.92	21.94	-3.15	8.79	1.652e+04-5.809e+04	-8382.03	-3.319e+04
		20	37.32	20.50	-97.22	-93.98	17.26	-19.27	5.987e+04-2.103e+05-1.536e+05	3208.52	-1.100e+05
		294	14.92	19.43	-34.07	-20.64	6.00	23.20	8177.46-9.449e+04-9.403e+04	7718.37	-6849.89
220	3	289	48.10	-3.70	-60.80	-60.27	-4.23	-5.46	-1.799e+05-3.682e+05-3.682e+05	-1.799e+05	-1958.44
		330	31.88	0.13	-54.65	-53.40	-1.13	-8.21	-1.634e+05-2.385e+05-2.324e+05	-1.695e+05	-2.056e+04
		310	26.66	0.17	-57.62	-56.70	-0.75	-7.24	-1.599e+05-1.895e+05-1.894e+05	-1.600e+05	-1694.01
		290	46.31	-4.93	-57.87	-54.76	-8.04	-12.45	-1.821e+05-3.545e+05-3.441e+05	-1.925e+05	-4.113e+04
220	4	289	44.39	-5.37	-52.35	-51.90	-5.82	-4.56	-1.697e+05-3.400e+05-3.400e+05	-1.697e+05	-1223.77
		330	29.48	-2.10	-47.37	-46.20	-3.27	-7.19	-1.540e+05-2.197e+05-2.140e+05	-1.597e+05	-1.856e+04
		310	24.63	-2.07	-50.15	-49.48	-2.75	-5.65	-1.498e+05-1.738e+05-1.738e+05	-1.499e+05	-694.51
		290	42.73	-6.38	-49.83	-47.32	-8.89	-10.15	-1.710e+05-3.272e+05-3.178e+05	-1.804e+05	-3.711e+04
220	5	289	60.54	-1.03	-82.04	-81.32	-1.76	-7.63	-2.179e+05-4.630e+05-4.629e+05	-2.179e+05	-3715.61
		330	40.12	4.22	-73.26	-71.70	2.67	-10.86	-1.982e+05-3.018e+05-2.942e+05	-2.058e+05	-2.710e+04
		310	33.57	4.25	-76.86	-75.38	2.78	-10.83	-1.952e+05-2.418e+05-2.414e+05	-1.956e+05	-4006.45
		290	58.35	-2.73	-78.23	-73.75	-7.22	-17.85	-2.218e+05-4.466e+05-4.329e+05	-2.355e+05	-5.376e+04
221	3	316	17.91	2.56	-42.42	-42.02	2.16	-4.20	-7.168e+04-1.372e+05-9.397e+04	-1.150e+05	-3.105e+04
		304	13.52	0.40	-13.14	-11.29	-1.45	-4.65	-2.231e+04-9.905e+04-3.417e+04	-8.720e+04	-2.773e+04
		303	14.27	-2.57	-24.98	-22.76	-4.79	-6.69	-4.105e+04-1.084e+05-5.296e+04	-9.648e+04	-2.569e+04
		15	17.18	21.62	-22.23	7.12	-7.72	-20.63	-5.531e+04-1.311e+05-5.932e+04	-1.271e+05	-1.697e+04
221	4	316	16.73	0.38	-37.71	-37.39	0.06	-3.48	-6.820e+04-1.282e+05-8.602e+04	-1.104e+05	-2.742e+04
		304	12.71	-1.31	-11.68	-9.78	-3.21	-4.01	-2.165e+04-9.330e+04-3.127e+04	-8.368e+04	-2.443e+04
		303	13.34	-4.82	-21.82	-20.00	-6.64	-5.26	-3.928e+04-1.015e+05-4.875e+04	-9.203e+04	-2.235e+04
		15	15.87	19.83	-20.58	7.55	-8.29	-18.59	-5.317e+04-1.213e+05-5.614e+04	-1.184e+05	-1.390e+04
221	5	316	22.29	6.80	-55.08	-54.50	6.22	-5.94	-8.622e+04-1.708e+05-1.211e+05	-1.359e+05	-4.162e+04
		304	16.54	3.72	-17.24	-15.14	1.62	-6.29	-2.611e+04-1.208e+05-4.421e+04	-1.027e+05	-3.724e+04
		303	17.71	1.20	-33.17	-30.00	-1.97	-9.95	-4.934e+04-1.342e+05-6.864e+04	-1.149e+05	-3.559e+04
		15	21.35	27.23	-27.57	6.97	-7.31	-26.45	-6.334e+04-1.623e+05-7.028e+04	-1.554e+05	-2.526e+04
222	3	261	12.54	0.30	-30.15	-25.23	-4.62	11.21	-3228.54-8.418e+04-7.296e+04	-1.444e+04	042.796e+04
		134	6.55	17.20	-5.53	1.88	9.78	-10.66	1.199e+04-3.620e+04-3.612e+04	1.191e+04	-1958.50
		282	14.33	3.49	-32.78	3.18	-32.47	3.36	8423.23-9.088e+04-6.740e+04	-1.506e+04	044.220e+04
		21	7.39	58.96	-3.05	18.48	37.43	-29.52	5.507e+04	2.965e+04	4.517e+04
222	4	261	11.55	-0.17	-27.77	-23.44	-4.50	10.04	-3794.48-7.793e+04-6.828e+04	-1.345e+04	042.495e+04
		134	6.38	14.96	-5.54	0.50	8.92	-9.35	1.096e+04-3.578e+04-3.576e+04	1.094e+04	-1003.35
		282	13.41	1.12	-29.88	0.92	-29.69	2.45	7086.22-8.547e+04-6.649e+04	-1.189e+04	043.737e+04
		21	6.27	52.21	-4.05	13.19	34.97	-25.94	4.644e+04	2.738e+04	3.754e+04
222	5	261	15.71	1.19	-37.22	-30.77	-5.26	14.36	-2748.01-1.048e+05-8.887e+04	-1.870e+04	043.706e+04
		134	7.50	22.95	-6.11	4.61	12.23	-14.02	1.608e+04-3.970e+04-3.939e+04	1.577e+04	-4160.30
		282	17.97	8.20	-41.08	7.61	-40.49	5.34	1.307e+04-1.127e+05-7.618e+04	-2.340e+04	045.705e+04
		21	11.08	77.12	-1.93	29.88	45.30	-38.76	8.289e+04	3.956e+04	6.940e+04
223	3	285	13.76	-1.61	-14.65	-12.20	-4.05	5.09	835.51-9.090e+04-8.835e+04	-1720.17	1.510e+04
		305	13.35	2.25	-21.53	-15.35	-3.92	10.42	-5177.21-9.099e+04-9.078e+04	-5386.40	4231.77
		308	15.63	-1.37	-20.22	-17.41	-4.18	6.71	-2.613e+04-1.143e+05-1.143e+05	-2.613e+04	265.65
		286	16.50	0.74	-21.87	-16.52	-4.61	9.61	-1.931e+04-1.177e+05-1.118e+05	-2.519e+04	042.333e+04
223	4	285	12.85	-2.93	-13.39	-11.62	-4.69	3.91	-2719.06-8.661e+04-8.504e+04	-4283.57	1.135e+04
		305	12.42	0.72	-19.63	-14.68	-4.24	8.74	-7769.33-8.595e+04-8.593e+04	-7795.18	1421.42
		308	14.61	-2.39	-18.32	-16.08	-4.62	5.53	-2.789e+04-1.078e+05-1.077e+05	-2.794e+04	-2150.02
		286	15.42	-1.22	-19.76	-15.54	-5.45	7.78	-2.375e+04-1.120e+05-1.078e+05	-2.795e+04	1.879e+04
223	5	285	17.20	0.88	-18.31	-14.33	-3.10	7.78	8700.86-1.095e+05-1.039e+05	3135.70	2.504e+04
		305	16.76	5.38	-27.00	-17.99	-3.63	14.51	-28.57-1.110e+05-1.099e+05	-1202.00	1.135e+04
		308	19.39	0.56	-25.58	-21.40	-3.62	9.58	-2.453e+04-1.390e+05-1.387e+05	-2.482e+04	5754.11
		286	20.57	4.57	-27.76	-19.80	-3.39	13.93	-1.088e+04-1.413e+05-1.309e+05	-2.131e+04	043.539e+04
224	3	20	7.96	61.44	-12.12	35.70	13.61	35.08	5.683e+04	1.441e+04	5.183e+04
		259	12.40	-3.97	-16.86	-6.42	-14.41	-5.06	-4584.95-8.436e+04-1.581e+04	-7.313e+04	-2.774e+04
		120	9.00	20.85	2.68	8.41	15.12	8.44	1.548e+04-5.045e+04-1.547e+04	-5.043e+04	1110.54
		280	15.11	2.02	-31.58	-30.66	1.10	-5.50	-1.031e+04-1.055e+05-3.014e+04	-8.563e+04	-3.865e+04
224	4	20	6.98	53.15	-11.71	32.18	9.25	30.34	4.969e+04	1.176e+04	4.685e+04
		259	11.57	-3.95	-16.24	-5.97	-14.22	-4.55	-4731.31-7.890e+04-1.473e+04	-6.890e+04	-2.533e+04
		120	8.67	17.24	2.19	7.47	11.96	7.18	1.394e+04-4.930e+04-1.394e+04	-4.930e+04	266.52
		280	14.17	-0.19	-28.05	-27.22	-1.02	-4.75	-9495.45-9.878e+04-2.581e+04	-8.247e+04	-3.450e+04
224	5	20	11.30	82.62	-14.25	45.55	22.83	47.08	8.151e+04	2.319e+04	6.998e+04



		259	15.26	-4.33	-19.66	-7.84	-16.15	-6.45	-5112.12-1.036e+05-2.026e+04-8.848e+04-3.554e+04
		120	10.63	29.50	3.77	10.94	22.32	11.54	2.093e+04-5.765e+04-2.080e+04-5.752e+04 3144.93
		280	18.83	6.23	-41.06	-39.87	5.04	-7.40	-1.282e+04-1.313e+05-4.279e+04-1.014e+05-5.152e+04
225	3	134	6.70	4.68	-5.69	3.58	-4.59	-3.19	1535.41-4.367e+04-4.365e+04 1518.42 876.09
		260	10.22	10.52	2.42	10.13	2.82	1.75	3215.37-6.619e+04-6.577e+04 2791.88 -5405.11
		281	12.68	-3.63	-7.99	-7.35	-4.27	1.54	5646.69-8.141e+04-7.942e+04 3656.54 1.301e+04
		282	10.97	0.46	-4.04	0.16	-3.73	-1.13	1.145e+04-6.661e+04-5.902e+04 3858.80 2.313e+04
225	4	134	6.64	3.23	-5.17	2.16	-4.10	-2.80	1765.22-4.319e+04-4.317e+04 1749.71 834.92
		260	9.94	8.10	2.17	7.75	2.52	1.41	2851.44-6.455e+04-6.407e+04 2364.59 -5707.76
		281	12.03	-3.61	-8.17	-7.87	-3.91	1.13	4884.47-7.742e+04-7.603e+04 3498.45 1.059e+04
		282	10.45	-0.91	-4.12	-1.88	-3.15	-1.47	9901.81-6.413e+04-5.828e+04 4055.74 1.997e+04
225	5	134	7.43	7.82	-7.19	6.53	-5.90	-4.21	1426.58-4.851e+04-4.847e+04 1392.22 1309.48
		260	11.87	15.95	3.09	15.44	3.61	2.53	4489.61-7.634e+04-7.598e+04 4125.60 -5412.08
		281	15.44	-3.58	-8.80	-7.06	-5.31	2.46	8194.04-9.841e+04-9.466e+04 4448.24 1.963e+04
		282	13.24	3.97	-5.18	3.93	-5.15	-0.59	1.667e+04-7.856e+04-6.605e+04 4155.83 3.217e+04
226	3	324	11.89	8.67	-31.14	-31.07	8.60	-1.67	-1.039e+04-8.379e+04-2.883e+04-6.535e+04-3.184e+04
		142	7.06	10.44	-7.03	5.81	-2.39	-7.71	4213.65-4.445e+04 443.05-4.068e+04-1.301e+04
		259	6.95	-3.08	-15.14	-8.09	-10.13	5.94	-1.095e+04-5.085e+04-2.132e+04-4.048e+04-1.750e+04
		20	16.25	49.79	-14.78	43.27	-8.26	-19.45	5.601e+04-6.688e+04 5.236e+04-6.323e+04-2.086e+04
226	4	324	11.30	6.87	-28.47	-28.37	6.77	-1.89	-8674.93-7.914e+04-2.430e+04-6.352e+04-2.927e+04
		142	6.74	9.63	-7.88	5.32	-3.57	-7.54	3836.12-4.251e+04 460.66-3.913e+04-1.204e+04
		259	6.68	-3.55	-15.55	-7.34	-11.75	5.58	-1.033e+04-4.874e+04-1.923e+04-3.984e+04-1.621e+04
		20	14.70	46.13	-14.31	39.42	-7.60	-18.99	5.012e+04-6.103e+04 4.703e+04-5.793e+04-1.828e+04
226	5	324	14.37	12.84	-39.06	-39.02	12.80	-1.43	-1.480e+04-1.022e+05-4.142e+04-7.555e+04-4.021e+04
		142	8.29	12.96	-6.21	7.25	-0.49	-8.77	5829.24-5.174e+04 849.24-4.676e+04-1.618e+04
		259	8.14	-1.95	-16.48	-10.23	-8.20	7.20	-1.344e+04-5.960e+04-2.851e+04-4.453e+04-2.165e+04
		20	21.06	61.36	-17.11	54.47	-10.21	-22.21	7.651e+04-8.301e+04 7.134e+04-7.783e+04-2.825e+04
227	3	279	13.28	-1.74	-25.28	-24.92	-2.10	-2.89	-1.005e+04-9.295e+04-1.276e+04-9.024e+04-1.473e+04
		258	11.37	15.55	1.94	3.93	13.56	-4.81	5956.55-7.223e+04 5904.03-7.218e+04 2025.82
		138	5.47	-4.24	-6.49	-4.32	-6.42	-0.41	-1.081e+04-4.050e+04-1.088e+04-4.043e+04 1443.83
		16	17.22	38.78	-17.94	28.43	-7.59	-21.91	4.971e+04-8.059e+04 4.945e+04-8.033e+04 5794.79
227	4	279	12.65	-3.37	-22.84	-22.59	-3.62	-2.18	-8498.17-8.813e+04-1.057e+04-8.606e+04-1.267e+04
		258	10.47	12.55	1.40	3.65	10.30	-4.47	5665.11-6.919e+04 5598.08-6.912e+04 2238.89
		138	5.32	-3.91	-7.99	-3.91	-7.98	0.11	-1.016e+04-3.923e+04-1.027e+04-3.912e+04 1807.74
		16	15.81	35.33	-17.07	26.02	-7.77	-20.03	4.566e+04-7.402e+04 4.525e+04-7.360e+04 7054.05
227	5	279	16.02	1.03	-32.25	-31.64	0.42	-4.46	-1.444e+04-1.130e+05-1.895e+04-1.085e+05-2.060e+04
		258	13.51	22.74	2.89	4.84	20.79	-5.91	7681.17-8.539e+04 7647.89-8.535e+04 1759.62
		138	6.15	-3.40	-6.39	-5.50	-4.30	-1.37	-1.388e+04-4.605e+04-1.390e+04-4.603e+04 772.66
		16	21.87	48.99	-21.31	35.67	-8.00	-27.54	6.575e+04-1.001e+05 6.567e+04-1.000e+05 3582.03
228	3	321	20.23	4.42	-53.70	-53.69	4.42	-0.54	-1.069e+05-1.507e+05-1.198e+05-1.378e+05 1.993e+04
		291	13.38	3.26	-15.87	-15.77	3.15	1.42	-2.775e+04-9.955e+04-2.935e+04-9.795e+04-1.058e+04
		332	17.11	-6.51	-30.39	-30.02	-6.89	2.96	-5.576e+04-1.308e+05-7.422e+04-1.123e+05 2.30e+04
		8	12.40	33.21	-17.72	18.06	-2.57	-23.29	-5.672e+04-9.471e+04-5.709e+04-9.435e+04 -3717.90
228	4	321	18.86	1.65	-47.11	-47.11	1.64	-0.49	-9.859e+04-1.409e+05-1.090e+05-1.305e+05 1.821e+04
		291	12.68	0.71	-13.74	-13.63	0.60	1.26	-2.522e+04-9.414e+04-2.665e+04-9.271e+04 9811.89
		332	15.96	-7.77	-26.75	-26.32	-8.20	2.80	-5.180e+04-1.219e+05-6.756e+04-1.062e+05 2.927e+04
		8	11.70	29.04	-16.72	17.05	-4.74	-20.12	-5.441e+04-8.924e+04-5.451e+04-8.914e+04 -1915.45
228	5	321	25.29	9.84	-70.92	-70.91	9.84	-0.67	-1.348e+05-1.879e+05-1.559e+05-1.668e+05 2.596e+04
		291	16.10	8.16	-21.38	-21.26	8.04	1.89	-3.637e+04-1.204e+05-3.859e+04-1.182e+05 1.347e+04
		332	21.31	-4.85	-40.02	-39.67	-5.20	3.52	-7.063e+04-1.630e+05-9.731e+04-1.363e+05 1.87e+04
		8	14.77	44.14	-21.55	21.52	1.07	-31.21	-6.493e+04-1.131e+05-6.637e+04-1.116e+05 -8217.96
229	3	119	75.43	-8.09	-73.38	-73.05	-8.42	4.63	-1.759e+05-5.648e+05-5.504e+05-1.904e+05 7.356e+04
		289	47.43	-1.72	-60.04	-58.85	-2.91	8.25	-1.775e+05-3.631e+05-3.499e+05-1.908e+05 4.779e+04
		290	46.73	-5.42	-59.18	-59.16	-5.44	-1.20	-1.784e+05-3.578e+05-3.574e+05-1.789e+05 -8588.73
		13	71.37	-10.93	-58.05	-57.80	-11.18	-3.39	-1.656e+05-5.347e+05-5.345e+05-1.658e+05 7531.99
229	4	119	69.50	-8.89	-62.81	-62.51	-9.18	3.97	-1.662e+05-5.215e+05-5.077e+05-1.800e+05 6.866e+04
		289	43.75	-3.69	-51.65	-50.68	-4.66	6.75	-1.678e+05-3.351e+05-3.229e+05-1.801e+05 4.358e+04
		290	43.11	-6.80	-51.02	-51.00	-6.82	-0.91	-1.676e+05-3.301e+05-3.298e+05-1.680e+05 -5777.78
		13	65.81	-11.08	-50.01	-49.81	-11.29	-2.83	-1.550e+05-4.936e+05-4.935e+05-1.551e+05 7175.78
229	5	119	94.99	-7.45	-99.27	-98.87	-7.85	6.08	-2.129e+05-7.091e+05-6.922e+05-2.298e+05 9.006e+04
		289	59.71	1.66	-81.13	-79.38	-0.09	11.90	-2.143e+05-4.566e+05-4.399e+05-2.310e+05 6.139e+04
		290	58.95	-3.34	-79.90	-79.86	-3.39	-1.89	-2.171e+05-4.510e+05-4.505e+05-2.177e+05-1.112e+04
		13	89.48	-11.73	-78.75	-78.48	-12.00	-4.28	-2.022e+05-6.688e+05-6.687e+05-2.024e+05 8842.12
230	3	291	13.91	4.00	-30.42	-11.94	-14.48	-17.16	-4.221e+04-1.061e+05-8.875e+04-5.955e+04 2.841e+04
		5	17.18	28.32	-55.73	-55.29	27.88	-6.10	3.995e+04-8.776e+04-6.572e+04 1.791e+04 4.826e+04
		327	11.57	18.45	-7.42	9.26	1.76	-12.38	4895.36-7.387e+04-3.256e+04-3.641e+04 3.933e+04
		275	14.93	-2.78	-7.18	-7.18	-2.78	0.07	5630.09-9.648e+04-6.871e+04-2.214e+04 4.544e+04
230	4	291	13.24	1.21	-26.71	-11.65	-13.85	-13.92	-3.825e+04-1.008e+05-8.349e+04-5.555e+04 2.798e+04
		5	15.64	24.26	-50.32	-50.05	23.99	-4.46	3.738e+04-7.916e+04-5.729e+04 1.551e+04 4.549e+04
		327	11.12	14.35	-6.50	7.10	0.75	-9.93	4625.47-7.117e+04-3.179e+04-3.476e+04 3.787e+04
		275	14.13	-2.88	-7.91	-7.62	-3.18	1.18	5676.92-9.103e+04-6.429e+04-2.107e+04 4.326e+04
230	5	291	16.75	9.41	-40.22	-13.70	-17.10	-24.75	-5.572e+04-1.282e+05-1.098e+05-7.417e+04 3.158e+04
		5	22.27	38.57	-71.26	-70.41	37.72	-9.64	5.235e+04-1.132e+05-8.868e+04 2.787e+04 5.877e+04
		327	13.65	27.68	-9.85	14.09	3.74	-18.04	6144.72-8.676e+04-3.700e+04-4.361e+04 4.633e+04
		275	18.17	-1.71	-7.83	-7.16	-2.37	-1.90	6589.74-1.177e+05-8.495e+04-2.614e+04 4.474e+04
231	3	272	14.99	1.50	-25.19	-24.42	0.72	4.47	-8279.83-1.038e+05-2.889e+04-8.318e+04 3.929e+04
		251	10.43	21.93	-0.12	3.44	18.37	-8.12	8808.55-6.411e+04 8501.02-6.380e+04 4725.44

		128	10.41	1.72	-10.95	1.46	-10.69	1.79	1322.63-6.838e+04	-5829.34-6.123e+04	2.115e+04		
		3	5.54	50.21	-18.71	23.31	8.18	-33.62	3.874e+04	6571.31	3.841e+04	6898.79	-3229.09
231	4	272	14.09	-0.52	-22.38	-21.62	-1.28	4.02	-7607.02-9.744e+04	-2.505e+04	-7.999e+04	3.554e+04	
		251	10.08	17.67	-0.21	2.97	14.49	-6.84	8084.78-6.232e+04	7724.95-6.196e+04	5020.55		
		128	9.77	1.40	-10.88	1.15	-10.63	1.73	841.97-6.434e+04	-5750.75-5.775e+04	1.965e+04		
		3	5.14	42.80	-17.55	20.95	4.30	-29.01	3.509e+04	3362.88	3.507e+04	3377.45	-679.70
231	5	272	18.59	5.30	-32.76	-31.88	4.41	5.73	-1.033e+04-1.287e+05	-4.029e+04-9.874e+04	5.146e+04		
		251	12.20	31.81	-5.96e-03	4.63	27.17	-11.22	1.166e+04-7.401e+04	1.143e+04-7.377e+04	4470.99		
		128	12.70	2.46	-12.13	2.17	-11.83	2.05	2222.48-8.308e+04	-6929.16-7.393e+04	2.640e+04		
		3	7.46	68.68	-22.85	29.87	15.96	-45.24	5.383e+04	1.552e+04	5.137e+04	1.798e+04	-9391.34
232	3	333	26.24	-5.92	-38.29	-19.19	-25.01	-15.92	-1.253e+05-1.987e+05	-1.829e+05-1.410e+05	-3.012e+04		
		309	23.38	-4.43	-39.19	-19.11	-24.50	-17.17	-1.160e+05-1.761e+05	-2.105e+05-1.216e+05	-1.754e+04		
		317	20.12	5.91	-28.30	-7.87	-14.52	-16.78	-7.150e+04-1.544e+05	-1.539e+05-7.197e+04	-6241.13		
		9	14.72	10.58	-45.02	10.55	-44.99	-1.30	-2.056e+04-1.061e+05	-5.563e+04-7.105e+04	-4.208e+04		
232	4	333	24.38	-7.46	-33.16	-18.15	-22.47	-12.67	-1.203e+05-1.838e+05	-1.712e+05-1.329e+05	-2.530e+04		
		309	21.74	-6.36	-33.99	-18.29	-22.07	-13.69	-1.099e+05-1.633e+05	-1.594e+05-1.138e+05	-1.392e+04		
		317	18.83	3.82	-24.87	-8.33	-12.72	-14.17	-6.801e+04-1.446e+05	-1.444e+05-6.817e+04	-3425.38		
		9	13.26	6.42	-40.44	6.41	-40.43	0.78	-2.343e+04-9.723e+04	-5.606e+04-6.460e+04	-3.665e+04		
232	5	333	32.78	-3.60	-51.31	-22.83	-32.08	-23.40	-1.478e+05-2.494e+05	-2.252e+05-1.720e+05	-4.330e+04		
		309	29.19	-1.34	-52.47	-22.51	-31.30	-25.18	-1.393e+05-2.209e+05	-2.104e+05-1.216e+05	-2.727e+04		
		317	24.95	10.38	-37.37	-7.80	-19.19	-23.19	-8.586e+04-1.913e+05	-1.896e+05-8.753e+04	-1.316e+04		
		9	19.34	19.20	-57.86	18.85	-57.51	-5.18	-1.337e+04-1.340e+05	-5.723e+04-9.011e+04	-5.801e+04		
233	3	315	18.23	4.14	-35.84	-35.31	3.61	4.60	-9.582e+04-1.365e+05	-9.588e+04-1.364e+05	1524.10		
		301	13.49	5.60	-25.84	-25.53	5.30	-3.08	-4.123e+04-1.029e+05	-4.233e+04-1.018e+05	-8153.99		
		291	13.84	5.34	-30.96	-30.93	5.31	-0.97	-3.753e+04-1.049e+05	-4.829e+04-9.416e+04	2.469e+04		
		321	18.11	3.51	-32.90	-30.42	1.03	-9.17	-9.152e+04-1.366e+05	-9.795e+04-1.302e+05	1.578e+04		
233	4	315	17.12	1.42	-31.15	-30.63	0.90	4.08	-8.778e+04-1.288e+05	-8.781e+04-1.287e+05	1054.88		
		301	12.76	2.81	-22.63	-22.32	2.50	-2.78	-3.733e+04-9.718e+04	-3.834e+04-9.617e+04	-7728.25		
		291	13.05	2.59	-27.23	-27.22	2.58	-0.49	-3.400e+04-9.877e+04	-4.368e+04-8.908e+04	2.310e+04		
		321	17.02	0.83	-28.53	-26.37	-1.33	-7.67	-8.410e+04-1.289e+05	-8.997e+04-1.230e+05	1.512e+04		
233	5	315	22.41	9.45	-47.94	-47.31	8.81	5.99	-1.230e+05-1.659e+05	-1.231e+05-1.657e+05	2514.90		
		301	16.30	11.19	-34.27	-33.93	10.85	-3.93	-5.433e+04-1.247e+05	-5.585e+04-1.232e+05	-1.026e+04		
		291	16.83	10.82	-40.85	-40.78	10.75	-1.92	-4.924e+04-1.282e+05	-6.384e+04-1.136e+05	3.065e+04		
		321	22.19	8.68	-44.11	-40.81	5.38	-12.77	-1.166e+05-1.662e+05	-1.251e+05-1.577e+05	1.871e+04		
234	3	275	13.38	-1.27	-8.10	-7.98	-1.38	0.87	-5564.18-9.179e+04	-5591.03-9.176e+04	1521.09		
		253	12.91	22.23	3.41	3.87	21.77	2.91	3717.40-8.347e+04	3140.36-8.289e+04	-7069.47		
		124	9.08	12.72	-6.37	-5.76	12.10	-3.38	1020.41-5.954e+04	995.65-5.951e+04	1224.28		
		274	12.70	6.17	-9.93	-6.51	2.74	-6.59	661.88-8.404e+04	-20.47-8.336e+04	7571.90		
234	4	275	12.71	-3.18	-7.04	-6.96	-3.27	0.57	-4603.37-8.697e+04	-4612.43-8.696e+04	864.03		
		253	12.29	17.58	3.00	3.40	17.18	2.39	3344.81-7.969e+04	2763.15-7.911e+04	-6925.31		
		124	8.73	9.55	-5.67	-5.08	8.95	-2.95	1321.56-5.712e+04	1289.86-5.709e+04	1360.63		
		274	12.13	3.82	-9.30	-5.46	-0.03	-5.97	1288.09-8.007e+04	741.41-7.952e+04	6646.43		
234	5	275	16.17	2.01	-10.82	-10.64	1.83	1.50	-8141.88-1.114e+05	-8239.91-1.113e+05	3180.06		
		253	15.53	32.81	4.48	5.11	32.19	4.15	5056.19-9.991e+04	4411.31-9.926e+04	-8202.11		
		124	10.69	19.70	-8.30	-7.56	18.96	-4.49	697.43-7.015e+04	673.64-7.012e+04	1297.96		
		274	15.13	11.39	-12.48	-9.06	7.96	-8.37	-250.50-1.005e+05	-1296.27-9.942e+04	1.018e+04		
235	3	6	12.77	65.26	-11.31	42.63	11.32	34.93	6.707e+04-2.668e+04	6.630e+04-2.590e+04	8486.84		
		148	9.59	-4.27	-16.01	-6.40	-13.89	-4.52	-1.052e+04-6.809e+04	-1.574e+04-6.287e+04	-1.654e+04		
		255	11.43	25.71	2.08	8.05	19.74	10.27	1.248e+04-6.871e+04	1.248e+04-6.871e+04	217.12		
		277	13.85	0.02	-35.63	-35.63	0.02	0.12	-2.610e+04-1.023e+05	-3.069e+04-9.772e+04	-1.814e+04		
235	4	6	11.66	56.95	-11.22	38.19	7.54	30.45	6.024e+04-2.576e+04	5.988e+04-2.540e+04	5569.07		
		148	8.97	-3.95	-15.88	-5.74	-14.09	-4.27	-9834.00-6.360e+04	-1.452e+04-5.891e+04	-1.517e+04		
		255	10.89	21.02	1.37	7.11	15.28	8.94	1.131e+04-6.589e+04	1.131e+04-6.588e+04	-445.39		
		277	13.15	-2.15	-31.52	-31.52	-2.15	-0.04	-2.237e+04-9.653e+04	-2.627e+04-9.263e+04	-1.654e+04		
235	5	6	16.55	87.00	-12.79	55.01	19.21	46.57	9.115e+04-2.861e+04	8.900e+04-2.646e+04	1.590e+04		
		148	11.73	-5.20	-18.03	-8.22	-15.00	-5.45	-1.350e+04-8.355e+04	-2.054e+04-7.651e+04	-2.107e+04		
		255	13.68	36.86	3.42	10.56	29.72	13.70	1.676e+04-8.093e+04	1.673e+04-8.090e+04	1714.30		
		277	16.81	3.88	-46.69	-46.69	3.87	0.42	-3.672e+04-1.255e+05	-4.343e+04-1.187e+05	-2.346e+04		
236	3	302	13.91	-2.55	-14.34	-13.77	-3.12	2.54	-3.887e+04-1.059e+05	-3.947e+04-1.052e+05	-6318.24		
		277	12.84	5.40	-16.25	-13.38	2.53	7.34	-7823.62-8.891e+04	-8184.77-8.854e+04	-5399.28		
		276	13.16	5.51	-12.98	-11.83	4.35	-4.48	-5978.61-9.028e+04	-5980.87-9.027e+04	436.69		
		301	14.61	-2.44	-14.79	-14.67	-2.55	1.19	-3.514e+04-1.100e+05	-3.514e+04-1.100e+05	-280.85		
236	4	302	13.18	-4.43	-12.39	-11.79	-5.03	2.10	-3.547e+04-9.995e+04	-3.597e+04-9.945e+04	-5673.79		
		277	12.25	2.82	-14.53	-11.68	-0.03	6.43	-6240.15-8.441e+04	-6585.60-8.406e+04	-5184.91		
		276	12.56	2.82	-11.49	-10.32	1.64	-3.94	-4576.64-8.569e+04	-4581.08-8.568e+04	600.46		
		301	13.86	-4.37	-12.78	-12.61	-4.54	1.18	-3.195e+04-1.041e+05	-3.195e+04-1.041e+05	-436.77		
236	5	302	16.82	0.63	-19.41	-18.75	-0.03	3.58	-5.070e+04-1.284e+05	-5.152e+04-1.276e+05	-7937.84		
		277	15.34	10.68	-21.12	-17.79	7.35	9.74	-1.191e+04-1.072e+05	-1.232e+04-1.068e+05	-6245.37		
		276	15.78	10.94	-17.07	-15.76	9.62	-5.92	-9445.05-1.090e+05	-9445.12-1.090e+05	79.56		
		301	17.66	0.81	-19.97	-19.89	0.73	1.33	-4.605e+04-1.337e+05	-4.605e+04-1.337e+05	-308.05		
237	3	330	33.44	-4.62	-69.97	-34.16	-40.43	-32.53	-1.633e+05-2.516e+05	-1.970e+05-2.179e+05	-4.290e+04		
		314	21.70	3.05	-6.48	-5.30	1.88	3.13	-1.065e+05-1.646e+05	-1.119e+05-1.593e+05	1.680e+04		
		7	25.70	-4.37	-118.74	-60.27	-62.83	-57.17	-1.158e+05-1.930e+05	-1.359e+05-1.729e+05	-3.388e+04		
		310	25.99	11.49	-50.07	-34.90	-3.68	-26.53	-1.429e+05-1.912e+05	-1.844e+05-1.497e+05	-1.676e+04		
237	4	330	30.76	-6.02	-61.23	-30.08	-37.17	-27.37	-1.536e+05-2.308e+05	-1.823e+05-2.021e+05	-3.734e+04		
		314	20.58	2.74	-7.04	-4.45	0.15	4.31	-1.005e+05-1.563e+05	-1.057e+05-1.510e+05	1.627e+04		
		7	22.89	-6.00	-105.02	-54.21	-56.81	-49.49	-1.071e+05-1.714e+05	-1.224e+05-1.560e+05	-2.741e+04		

		310	24.10	8.15	-43.63	-31.64	-3.83	-21.84-1.344e+05-1.767e+05-1.713e+05-1.399e+05-1.410e+04
237	5	330	42.40	-2.46	-92.74	-44.93	-50.27	-45.06-1.985e+05-3.205e+05-2.465e+05-2.725e+05-5.960e+04
		314	26.27	5.28	-7.52	-7.39	5.15	1.26-1.297e+05-1.991e+05-1.359e+05-1.929e+05-1.984e+04
		7	34.14	-1.83	-155.22	-77.21	-79.84	-76.68-1.423e+05-2.575e+05-1.759e+05-2.239e+05-5.237e+04
		310	32.55	18.69	-66.78	-44.27	-3.82	-37.65-1.729e+05-2.415e+05-2.307e+05-1.837e+05-2.502e+04
238	3	16	4.50	17.32	-49.24	5.83	-37.74	-25.16 3730.56-2.636e+04-2.210e+04 -528.52 1.049e+04
		278	15.17	9.86	-1.68	5.05	3.13	5.69 -901.44-1.015e+05-1.013e+05 -1150.46 4999.18
		292	14.63	0.88	-22.60	-5.68	-16.03	10.54-2.524e+04-1.076e+05-1.074e+05-2.540e+04 3683.10
		293	14.65	1.73	-18.97	0.93	-18.17	-4.00-3.652e+04-1.105e+05-1.087e+05-3.829e+04 1.131e+04
238	4	16	4.64	13.28	-45.00	1.94	-33.67	-23.06 6106.48-2.599e+04-2.255e+04 2662.30 9934.25
		278	14.40	7.97	-2.19	2.63	3.15	5.07 -1146.31-9.652e+04-9.638e+04 -1290.81 3709.55
		292	13.82	-1.24	-20.07	-7.31	-14.00	8.80-2.285e+04-1.013e+05-1.012e+05-2.292e+04 2374.51
		293	13.83	-1.07e-04	-16.82	-0.87	-15.95	-3.73-3.390e+04-1.042e+05-1.029e+05-3.526e+04 9652.53
238	5	16	4.52	26.51	-62.07	13.34	-48.89	-31.52 1015.05-2.767e+04-2.082e+04 -5838.17 1.223e+04
		278	18.41	14.73	-1.41	9.89	3.43	7.39 -674.58-1.229e+05-1.223e+05 -1239.65 8289.94
		292	17.78	4.91	-29.59	-3.36	-21.31	14.73-3.297e+04-1.315e+05-1.310e+05-3.350e+04 7212.92
		293	17.79	5.09	-24.83	4.27	-24.01	-4.87-4.680e+04-1.345e+05-1.316e+05-4.968e+04 1.563e+04
239	3	263	37.34	0.15	-59.28	-58.73	-0.40	-5.70-1.400e+05-2.854e+05-2.838e+05-1.416e+05-1.520e+04
		333	22.23	-9.96	-22.29	-22.02	-10.23	-1.81-1.227e+05-1.639e+05-1.536e+05-1.329e+05 1.785e+04
		9	22.74	8.58	-81.04	-74.21	1.75	-23.78-2.802e+04-1.617e+05-1.557e+05-3.404e+04 2.772e+04
		265	25.65	6.33	-34.51	-34.21	6.03	3.47-1.127e+05-1.956e+05-1.955e+05-1.128e+05 -2923.69
239	4	263	34.68	-2.11	-51.81	-51.22	-2.70	-5.40-1.341e+05-2.652e+05-2.635e+05-1.358e+05-1.477e+04
		333	20.93	-11.20	-18.98	-18.66	-11.53	-1.55-1.179e+05-1.533e+05-1.434e+05-1.278e+05 1.589e+04
		9	20.35	5.29	-72.77	-66.18	-1.29	-21.70-2.891e+04-1.462e+05-1.399e+05-3.523e+04 2.648e+04
		265	24.21	4.12	-30.26	-29.80	3.66	3.96-1.108e+05-1.842e+05-1.841e+05-1.109e+05 -2887.62
239	5	263	46.53	4.42	-78.64	-78.09	3.87	-6.76-1.639e+05-3.551e+05-3.534e+05-1.656e+05-1.792e+04
		333	27.14	-8.50	-30.63	-30.35	-8.78	-2.47-1.446e+05-2.019e+05-1.899e+05-1.566e+05 2.333e+04
		9	30.16	15.40	-103.73	-95.72	7.38	-29.85-2.578e+04-2.100e+05-2.042e+05-3.163e+04 3.232e+04
		265	31.26	11.22	-45.62	-45.47	11.07	2.90-1.268e+05-2.390e+05-2.389e+05-3.326e+05 -3448.59
240	3	9	8.60	22.21	-14.39	13.08	-5.25	15.84-4.689e+04-6.332e+04-5.958e+04-5.062e+04 -6887.33
		317	20.32	3.01	-46.15	-8.35	-34.79	-20.72-7.437e+04-1.556e+05-1.487e+05-8.135e+04-2.278e+04
		297	12.87	2.22	-14.26	1.82	-13.86	-2.53-2.565e+04-9.552e+04-9.472e+04-2.645e+04 7444.00
		298	17.64	-1.92	-31.09	-9.96	-23.04	-13.04-2.546e+04-1.278e+05-1.179e+05-3.531e+04-3.017e+04
240	4	9	8.44	18.85	-13.86	9.06	-4.07	14.98-4.527e+04-6.253e+04-5.970e+04-4.810e+04 -6386.18
		317	18.88	0.63	-40.74	-8.89	-31.23	-17.41-7.085e+04-1.447e+05-1.398e+05-7.578e+04-1.844e+04
		297	12.22	0.29	-12.76	0.13	-12.61	-1.42-2.422e+04-9.073e+04-8.964e+04-2.531e+04 8456.96
		298	16.28	-3.41	-27.63	-10.19	-20.85	-10.87-2.542e+04-1.185e+05-1.107e+05-3.326e+04-2.586e+04
240	5	9	9.48	30.54	-17.07	21.42	-7.95	18.73-5.177e+04-6.970e+04-6.221e+04-5.926e+04 -8839.34
		317	25.56	7.63	-60.38	-8.18	-44.58	-28.73-8.876e+04-1.954e+05-1.824e+05-1.018e+05-3.492e+04
		297	15.44	6.01	-18.52	5.00	-17.51	-4.86-3.168e+04-1.147e+05-1.143e+05-3.208e+04 5752.27
		298	22.38	0.69	-40.35	-10.40	-29.26	-18.22-2.834e+04-1.607e+05-1.446e+05-4.440e+04-4.321e+04
241	3	328	17.58	3.35	-28.76	-27.13	1.72	7.06-8.004e+04-1.342e+05-8.925e+04-1.250e+05 2.035e+04
		329	13.29	4.41	-30.06	-28.85	3.21	6.33-4.232e+04-1.018e+05-4.919e+04-9.489e+04 1.901e+04
		300	13.89	6.48	-23.65	-23.03	5.87	4.25-2.963e+04-1.038e+05-4.512e+04-8.826e+04 3.014e+04
		318	16.90	1.00	-30.77	-30.62	0.85	2.20-6.426e+04-1.298e+05-8.102e+04-1.131e+05 2.860e+04
241	4	328	16.46	1.06	-25.05	-23.43	-0.56	6.30-7.478e+04-1.256e+05-8.204e+04-1.184e+05 1.779e+04
		329	12.46	1.95	-26.49	-25.37	0.82	5.55-3.926e+04-9.534e+04-4.477e+04-8.983e+04 1.669e+04
		300	13.10	3.78	-20.85	-20.20	3.13	3.95-2.763e+04-9.779e+04-4.094e+04-8.449e+04 2.751e+04
		318	15.86	-1.14	-26.97	-26.80	-1.31	2.09-6.019e+04-1.218e+05-7.426e+04-1.077e+05 2.586e+04
241	5	328	21.66	7.91	-38.40	-36.52	6.03	9.14-9.876e+04-1.652e+05-1.135e+05-1.505e+05 2.763e+04
		329	16.30	9.30	-39.53	-38.05	7.83	8.37-5.365e+04-1.250e+05-6.455e+04-1.141e+05 2.566e+04
		300	16.95	12.03	-31.12	-30.47	11.39	5.25-3.701e+04-1.269e+05-5.928e+04-1.046e+05 3.879e+04
		318	20.82	5.01	-40.73	-40.57	4.85	2.65-7.940e+04-1.599e+05-1.041e+05-1.353e+05 3.711e+04
242	3	303	16.63	2.16	-32.97	-17.16	-13.65	17.48-3.806e+04-1.243e+05-1.238e+05-3.680e+04 6765.52
		293	12.09	3.05	-20.28	-0.79	-16.44	8.66-2.568e+04-9.005e+04-8.154e+04-3.418e+04-2.179e+04
		312	17.43	5.53	-42.31	-7.37	-29.41	21.23-7.596e+04-1.335e+05-1.330e+05-7.653e+04 -5711.27
		15	11.70	17.47	-9.86	8.75	-1.14	-12.74-5.245e+04-8.957e+04-8.574e+04-5.628e+04-1.130e+04
242	4	303	15.40	0.16	-29.20	-16.49	-12.55	14.54-3.659e+04-1.154e+05-1.152e+05-3.683e+04 4298.55
		293	11.43	0.85	-18.02	-1.83	-15.35	6.59-2.368e+04-8.502e+04-7.617e+04-3.253e+04-2.156e+04
		312	16.33	2.92	-37.42	-7.55	-26.95	17.68-7.058e+04-1.252e+05-1.241e+05-7.160e+04 -7405.21
		15	11.18	15.91	-10.60	6.00	-0.69	-12.83-5.018e+04-8.557e+04-8.204e+04-5.371e+04-1.061e+04
242	5	303	20.98	6.06	-43.07	-20.00	-17.01	24.52-4.531e+04-1.561e+05-1.544e+05-4.707e+04 1.386e+04
		293	14.54	7.39	-26.52	0.95	-20.08	13.30-3.292e+04-1.086e+05-1.003e+05-1.125e+04-2.369e+04
		312	21.61	10.81	-55.35	-7.82	-36.72	29.76-9.503e+04-1.654e+05-1.653e+05-9.508e+04 -1731.61
		15	13.59	22.14	-9.80	14.42	-2.08	-13.68-6.075e+04-1.039e+05-9.931e+04-6.538e+04-1.335e+04
243	3	125	7.28	2.72	0.74	1.40	2.05	0.94 128.55-4.848e+04-4.839e+04 40.16 -2070.99
		261	4.70	-3.39	-7.56	-6.62	-4.33	1.74 1221.36-3.051e+04-2.067e+04 -8615.01 1.468e+04
		21	15.70	21.34	-21.34	-18.56	18.56	10.53 2.263e+04-9.064e+04-8.921e+04 2.120e+04-1.265e+04
		283	14.67	-8.08	-16.98	-9.79	-15.27	3.51 2.240e+04-8.446e+04-6.657e+04 4502.22 3.990e+04
243	4	125	7.15	3.15	-0.05	0.89	2.21	1.46 522.50-4.739e+04-4.733e+04 463.80 -1675.94
		261	4.49	-3.81	-8.89	-8.64	-4.05	1.09 -738.97-3.007e+04-2.251e+04 -8302.76 1.283e+04
		21	14.48	21.56	-19.13	-15.56	17.99	11.52 2.196e+04-8.289e+04-8.138e+04 2.045e+04-1.250e+04
		283	13.84	-8.59	-16.16	-9.71	-15.04	2.68 1.997e+04-8.053e+04-6.554e+04 4983.63 3.580e+04
243	5	125	8.26	2.49	1.94	2.49	1.95	0.06 -241.61-5.512e+04-5.494e+04 -419.94 -3123.13
		261	5.71	-1.12	-7.57	-3.47	-5.22	3.10 6210.46-3.434e+04-1.733e+04-1.080e+04 2.001e+04
		21	19.73	23.20	-27.62	-25.71	21.28	9.67 2.869e+04-1.136e+05-1.121e+05 2.720e+04-1.448e+04
		283	18.01	-7.72	-20.10	-10.77	-17.05	5.34 3.005e+04-1.019e+05-7.572e+04 3875.13 5.261e+04

244	3	280	12.32	4.67	-5.56	-2.84	1.94	4.52	6249.26-7.860e+04	2534.74-7.488e+04	-1.736e+04
		120	9.45	12.61	-1.64	-1.64	12.60	-0.14	-442.20-6.277e+04	-1077.04-6.214e+04	-6258.47
		258	11.85	14.30	1.06	1.06	14.30	0.05	4117.42-7.638e+04	3924.11-7.619e+04	3940.03
		279	13.74	3.25	-12.04	-4.31	-4.48	-7.64	2616.10-9.004e+04	-749.42-8.668e+04	-1.734e+04
244	4	280	11.79	2.71	-5.54	-2.37	-0.46	4.01	5822.37-7.544e+04	2717.47-7.233e+04	-1.558e+04
		120	9.12	9.83	-1.34	-1.33	9.83	-0.20	-167.87-6.052e+04	-730.07-5.996e+04	-5797.79
		258	11.33	10.87	0.81	0.81	10.87	0.12	3722.07-7.328e+04	3519.71-7.308e+04	3942.24
		279	12.96	2.13	-11.51	-3.70	-5.68	-6.75	2453.29-8.490e+04	-183.77-8.226e+04	-1.495e+04
244	5	280	14.66	9.11	-6.60	-3.97	6.47	5.87	7956.33-9.313e+04	2536.02-8.771e+04	-2.277e+04
		120	11.12	18.86	-2.34	-2.34	18.86	-0.02	-889.62-7.390e+04	-1785.90-7.300e+04	-8039.49
		258	14.11	21.90	1.63	1.63	21.90	-0.08	5521.91-9.049e+04	5311.81-9.028e+04	4486.54
		279	16.83	5.85	-14.45	-5.84	-2.75	-10.03	3625.04-1.101e+05	-1850.13-1.046e+05	-2.435e+04
245	3	22	16.78	9.55	-25.42	9.54	-25.42	0.30	8.939e+04-3.573e+04	4.315e+04	1.051e+04
		284	10.26	5.84	-9.32	-8.36	4.88	3.70	2438.20-6.675e+04	-6.044e+04	-3872.23
		285	14.59	-2.88	-15.94	-8.10	-10.72	6.40	1.424e+04-8.896e+04	-5.445e+04	-2.028e+04
		153	10.95	0.39	-15.86	-11.81	-3.66	7.02	-1.413e+04-7.853e+04	-5.676e+04	-3.590e+04
245	4	22	14.91	5.79	-25.05	5.65	-24.91	-2.10	7.960e+04-3.176e+04	3.526e+04	1.257e+04
		284	9.96	6.10	-9.50	-8.69	5.29	3.47	1410.32-6.527e+04	-6.038e+04	-3476.32
		285	13.42	-5.14	-14.30	-8.80	-10.63	4.49	9257.78-8.415e+04	-5.533e+04	-1.956e+04
		153	10.43	0.20	-14.43	-10.59	-3.64	6.44	-1.603e+04-7.565e+04	-5.690e+04	-3.477e+04
245	5	22	22.62	18.21	-28.89	17.70	-28.38	4.89	1.218e+05-4.591e+04	6.733e+04	8597.39
		284	12.05	5.84	-9.82	-8.44	4.45	4.45	5195.31-7.720e+04	-6.699e+04	-5006.65
		285	18.64	1.25	-20.40	-7.40	-11.76	10.60	2.677e+04-1.080e+05	-5.701e+04	-2.424e+04
		153	13.13	0.81	-19.86	-15.03	-4.02	8.74	-1.205e+04-9.232e+04	-6.118e+04	-3.19e+04
246	3	77	48.92	11.94	-63.85	7.82	-59.73	-17.18	-1.094e+05-3.647e+05	-1.094e+05	-3.647e+05
		12	60.15	7.67	-62.17	-8.09	-46.40	-29.19	-1.442e+05-4.514e+05	-1.493e+05	-4.464e+05
		263	36.96	1.00	-52.79	-4.19	-47.59	-15.89	-1.467e+05-2.827e+05	-1.516e+05	-2.778e+05
		265	24.44	3.45	-40.28	2.64	-39.47	-5.91	-1.085e+05-1.860e+05	-1.111e+05	-1.834e+05
246	4	77	45.86	7.25	-54.85	4.15	-51.75	-13.53	-1.089e+05-3.436e+05	-1.090e+05	-3.435e+05
		12	55.90	5.22	-53.32	-7.85	-40.25	-24.38	-1.373e+05-4.204e+05	-1.412e+05	-4.165e+05
		263	34.41	-1.69	-45.66	-5.88	-41.47	-12.91	-1.404e+05-2.633e+05	-1.444e+05	-2.593e+05
		265	23.00	0.65	-35.32	-0.06	-34.61	-5.02	-1.073e+05-1.745e+05	-1.096e+05	-1.721e+05
246	5	77	59.90	21.68	-86.15	15.26	-79.73	-25.52	-1.189e+05-4.424e+05	-1.192e+05	-4.421e+05
		12	74.36	13.35	-84.25	-8.59	-62.31	-40.74	-1.703e+05-5.560e+05	-1.786e+05	-5.476e+05
		263	45.96	5.85	-70.89	-1.72	-63.31	-22.89	-1.723e+05-3.514e+05	-1.797e+05	-3.441e+05
		265	29.86	9.12	-53.12	8.03	-52.03	-8.16	-1.207e+05-2.280e+05	-1.240e+05	-2.247e+05
247	3	288	38.03	-0.39	-53.89	-51.49	-2.80	11.09	-1.497e+05-2.910e+05	-2.813e+05	-1.594e+05
		331	28.10	3.07	-54.75	-48.25	-3.42	18.26	-1.348e+05-2.123e+05	-2.122e+05	-1.348e+05
		330	31.17	-7.26	-46.65	-46.09	-7.82	-4.64	-1.730e+05-2.289e+05	-2.259e+05	-1.760e+05
		289	47.33	-3.52	-59.22	-59.22	-3.52	0.52	-1.821e+05-3.624e+05	-3.613e+05	-1.832e+05
247	4	288	35.31	-2.58	-46.70	-44.70	-4.58	9.18	-1.428e+05-2.702e+05	-2.611e+05	-1.519e+05
		331	26.01	0.57	-47.95	-42.13	-5.25	15.76	-1.284e+05-1.958e+05	-1.958e+05	-1.284e+05
		330	28.90	-8.68	-40.22	-39.66	-9.25	-4.17	-1.632e+05-2.111e+05	-2.083e+05	-1.660e+05
		289	43.70	-5.27	-50.96	-50.95	-5.27	0.55	-1.719e+05-3.347e+05	-3.336e+05	-1.730e+05
247	5	288	47.46	3.62	-72.27	-68.92	0.27	15.58	-1.772e+05-3.629e+05	-3.511e+05	-1.891e+05
		331	35.31	7.98	-72.45	-64.08	-0.39	24.56	-1.602e+05-2.681e+05	-2.679e+05	-1.603e+05
		330	39.04	-5.36	-62.92	-62.30	-5.98	-5.94	-2.101e+05-2.890e+05	-2.853e+05	-2.138e+05
		289	59.53	-0.67	-79.97	-79.96	-0.67	0.47	-2.205e+05-4.555e+05	-4.543e+05	-2.217e+05
248	3	171	22.11	4.59	-34.82	-13.72	-16.52	-19.65	-8.373e+04-1.690e+05	-1.239e+05	-1.289e+05
		265	25.15	0.87	-39.43	-23.64	-14.93	-19.68	-8.657e+04-1.919e+05	-1.568e+05	-1.217e+05
		266	18.52	2.48	-18.92	-12.28	-4.15	-9.90	-3.549e+04-1.368e+05	-1.357e+05	-3.661e+04
		10	19.42	5.85	-34.35	3.03	-31.53	-10.27	5.236e+04-9.434e+04	-1.936e+04	-2.262e+04
248	4	171	21.06	2.31	-30.79	-12.56	-15.92	-16.47	-8.606e+04-1.610e+05	-1.200e+05	-1.270e+05
		265	23.45	-2.39	-34.37	-22.13	-14.63	-15.55	-8.709e+04-1.794e+05	-1.489e+05	-1.176e+05
		266	17.46	1.73	-17.13	-11.97	-3.43	-8.41	-3.606e+04-1.298e+05	-1.292e+05	-3.664e+04
		10	17.14	1.36	-32.03	-0.04	-30.63	-6.70	4.165e+04-8.714e+04	-2.393e+04	-2.156e+04
248	5	171	26.54	9.52	-45.39	-16.85	-19.02	-27.43	-8.567e+04-2.019e+05	-1.425e+05	-1.450e+05
		265	31.20	7.05	-52.41	-28.61	-16.75	-29.13	-9.251e+04-2.365e+05	-1.878e+05	-1.412e+05
		266	22.75	4.28	-24.11	-13.94	-5.90	-13.61	-3.747e+04-1.663e+05	-1.635e+05	-4.026e+04
		10	26.31	14.97	-41.98	8.77	-35.78	-17.74	8.325e+04-1.170e+05	-8141.00	-2.558e+04
249	3	265	25.84	4.52	-43.54	-24.77	-14.26	-23.45	-8.208e+04-1.965e+05	-1.740e+05	-1.046e+05
		9	27.59	10.70	-61.42	-61.03	10.30	-5.30	-3.932e+04-1.986e+05	-1.880e+05	-4.987e+04
		307	11.83	7.31	-18.33	-3.47	-7.54	-12.66	-5.249e+04-9.067e+04	-8.939e+04	-5.376e+04
		266	17.13	-7.94	-22.45	-18.10	-12.28	-6.64	-2.519e+04-1.242e+05	-1.242e+05	-2.520e+04
249	4	265	24.12	0.95	-38.20	-22.46	-14.79	-19.20	-8.354e+04-1.842e+05	-1.652e+05	-1.025e+05
		9	24.98	9.36	-54.38	-54.04	9.02	-4.65	-3.803e+04-1.806e+05	-1.703e+05	-4.841e+04
		307	11.39	4.71	-16.14	-4.10	-7.33	-10.30	-5.102e+04-8.723e+04	-8.499e+04	-5.327e+04
		266	16.05	-8.63	-20.19	-16.83	-11.99	-5.25	-2.620e+04-1.172e+05	-1.171e+05	-2.633e+04
249	5	265	32.14	11.44	-57.37	-31.32	-14.61	-33.37	-8.600e+04-2.420e+05	-2.097e+05	-1.183e+05
		9	35.82	14.26	-79.85	-79.29	13.70	-7.20	-4.333e+04-2.551e+05	-2.432e+05	-5.524e+04
		307	13.94	12.74	-24.07	-2.79	-8.54	-18.18	-6.053e+04-1.069e+05	-1.067e+05	-6.373e+04
		266	21.20	-7.22	-28.68	-22.06	-13.84	-9.91	-2.488e+04-1.515e+05	-1.514e+05	-2.499e+04
250	3	334	7.17	4.38	-5.84	2.91	-4.38	3.58	1.310e+04-3.958e+04	-3.635e+04	9864.20
		268	9.69	-1.38	-5.10	-4.17	-2.30	1.61	7365.67-6.053e+04	-6.053e+04	7365.29
		133	7.11	4.44	1.19	3.68	1.95	-1.38	1349.63-4.658e+04	-4.373e+04	-1500.51
		247	6.52	-0.82	-8.73	-5.85	-3.69	3.81	1319.22-4.262e+04	-4.248e+04	1180.32
250	4	334	6.93	3.11	-5.96	1.12	-3.96	3.76	1.133e+04-3.925e+04	-3.719e+04	9269.89

		268	9.40	-1.24	-5.68	-4.72	-2.21	1.83	6492.70-5.906e+04-5.902e+04	6454.71	1577.54
		133	7.06	3.58	1.07	2.80	1.84	-1.16	1265.11-4.637e+04-4.346e+04	-1640.93	1.140e+04
		247	6.51	-1.01	-8.60	-6.05	-3.56	3.58	1282.28-4.258e+04-4.242e+04	1121.21	2653.02
250	5	334	8.54	7.48	-6.48	6.52	-5.53	3.53	1.946e+04-4.427e+04-3.741e+04	1.261e+04	-1.975e+04
		268	11.34	-1.69	-4.47	-3.49	-2.67	1.33	1.032e+04-6.984e+04-6.964e+04	1.012e+04	-3960.06
		133	7.92	6.49	1.43	5.64	2.29	-1.89	1772.68-5.169e+04-4.861e+04	-1305.06	1.245e+04
		247	7.03	-0.47	-9.71	-5.93	-4.25	4.54	1602.28-4.588e+04-4.580e+04	1523.33	1934.52
251	3	267	14.87	-0.75	-20.72	-16.42	-5.05	-8.21	7674.23-9.443e+04-8.129e+04	-5465.05	-3.419e+04
		295	9.21	10.68	-19.38	5.49	-14.19	-11.36	-4846.34-6.358e+04-5.538e+04	-1.305e+04	-2.036e+04
		2	26.42	7.47	-77.76	-53.17	-17.12	-38.62	5.273e+04-1.415e+05-1.312e+05	4.247e+04	-4.345e+04
		269	10.88	10.79	-4.24	-0.21	6.76	6.66	1.007e+04-6.689e+04-6.666e+04	9836.75	-4209.76
251	4	267	13.80	-1.77	-18.89	-15.82	-4.84	-6.57	4834.52-8.888e+04-7.841e+04	-5635.96	-2.952e+04
		295	8.73	7.73	-17.62	3.19	-13.09	-9.72	-6570.24-6.115e+04-5.518e+04	-1.254e+04	-1.703e+04
		2	23.62	5.73	-69.42	-46.94	-16.76	-34.41	4.871e+04-1.255e+05-1.176e+05	4.085e+04	-3.617e+04
		269	10.60	9.65	-4.93	-1.30	6.02	6.30	8633.14-6.585e+04-6.572e+04	8505.01	-3086.62
251	5	267	18.76	1.26	-26.13	-18.99	-5.89	-12.03	1.487e+04-1.161e+05-9.521e+04	-6021.57	-4.796e+04
		295	11.38	17.11	-24.38	10.22	-17.49	-15.44	-731.80-7.597e+04-6.067e+04	-1.603e+04	-3.028e+04
		2	35.17	11.42	-100.21	-69.43	-19.35	-49.89	6.960e+04-1.887e+05-1.715e+05	5.247e+04	-6.426e+04
		269	12.63	13.91	-3.34	1.82	8.75	7.90	1.429e+04-7.611e+04-7.554e+04	1.372e+04	-7161.47
252	3	295	13.85	2.78	-21.40	2.43	-21.05	-2.91	-1.764e+04-9.961e+04-6.367e+04	-5.358e+04	-4.952e+04
		296	13.20	-5.18	-22.54	-6.87	-20.85	5.14	-1.187e+04-9.328e+04-5.344e+04	-5.171e+04	-4.069e+04
		270	12.10	17.47	0.18	1.96	15.69	-5.26	1.163e+04-7.391e+04-5.946e+04	-2813.74	-3.204e+04
		2	17.02	13.96	-67.32	3.28	-56.65	27.46	7.864e+04-5.108e+04	6.489e+04	-3.733e+04
252	4	295	12.96	2.80	-19.79	2.40	-19.40	-2.94	-1.731e+04-9.349e+04-6.150e+04	-6.740e+04	-3.760e+04
		296	12.27	-6.32	-21.02	-8.43	-18.92	5.15	-1.291e+04-8.746e+04-5.340e+04	-4.698e+04	-3.714e+04
		270	11.58	16.65	-1.68	0.16	14.81	-5.51	9799.05-7.142e+04-5.887e+04	-2753.53	-2.936e+04
		2	14.97	9.32	-62.64	-1.94	-51.38	26.14	7.052e+04-4.354e+04	5.609e+04	-2.911e+04
252	5	295	17.07	3.10	-26.36	2.77	-26.03	-3.12	-2.051e+04-1.223e+05-7.373e+04	-6.908e+04	-5.085e+04
		296	16.42	-3.26	-27.69	-4.61	-26.34	5.58	-1.100e+04-1.145e+05-5.827e+04	-6.722e+04	-5.155e+04
		270	14.50	20.60	3.60	5.45	18.75	-5.31	1.714e+04-8.668e+04-6.690e+04	-2631.85	-4.076e+04
		2	23.36	24.13	-82.50	13.14	-71.51	32.42	1.071e+05-7.035e+04	9.334e+04	-5.662e+04
253	3	9	14.79	24.51	-16.40	12.08	-3.97	18.81	-3.586e+04-1.108e+05	-5.977e+04	-6.689e+04
		298	15.05	-1.46	-30.23	-28.66	-3.04	-6.54	-3.198e+04-1.122e+05	-7.508e+04	-6.913e+04
		299	13.69	5.64	-13.29	-10.07	2.42	7.12	-7211.13-9.426e+04	-5.162e+04	-4.985e+04
		307	16.19	3.47	-36.98	-36.98	3.47	0.11	-5.163e+04-1.232e+05	-1.029e+05	-7.196e+04
253	4	9	13.74	23.13	-16.25	11.75	-4.87	17.85	-3.615e+04-1.035e+05	-5.693e+04	-8.270e+04
		298	13.97	-3.30	-27.14	-25.48	-4.95	-6.06	-3.147e+04-1.046e+05	-6.869e+04	-6.740e+04
		299	12.78	3.98	-12.36	-8.64	0.27	6.85	-8341.78-8.868e+04	-4.741e+04	-4.962e+04
		307	14.98	1.53	-33.00	-32.99	1.53	0.53	-5.088e+04-1.144e+05	-9.392e+04	-7.132e+04
253	5	9	18.19	29.35	-18.25	13.64	-2.54	22.38	-3.668e+04-1.345e+05	-6.980e+04	-1.014e+04
		298	18.92	1.79	-38.86	-37.20	0.14	-8.04	-3.661e+04-1.401e+05	-9.779e+04	-6.789e+04
		299	17.00	9.56	-16.62	-13.66	6.60	8.28	-5223.02-1.153e+05	-6.618e+04	-5.438e+04
		307	20.41	7.42	-47.73	-47.72	7.41	-0.62	-5.837e+04-1.544e+05	-1.326e+05	-8.009e+04
254	3	297	13.12	-3.17	-26.70	-25.62	-4.24	-4.92	-2.658e+04-9.760e+04	-3.890e+04	-8.528e+04
		272	14.98	12.17	-2.31	10.90	-1.04	4.10	9463.66-9.448e+04	6305.28	-9.132e+04
		3	7.44	16.96	-57.07	-49.13	9.02	-22.91	2.169e+04-3.447e+04	-1.681e+04	4029.16
		298	14.65	1.60	-17.34	-16.60	0.86	3.67	-3.845e+04-1.108e+05	-5.832e+04	-9.094e+04
254	4	297	12.35	-4.76	-24.19	-22.82	-6.13	-4.98	-2.481e+04-9.186e+04	-3.491e+04	-8.175e+04
		272	14.19	11.32	-3.93	10.27	-2.87	3.87	8109.41-8.997e+04	5557.47	-8.742e+04
		3	6.70	12.81	-52.21	-44.22	4.83	-21.34	1.977e+04-3.049e+04	-1.157e+04	854.94
		298	13.71	0.51	-15.52	-14.67	-0.34	3.59	-3.704e+04-1.039e+05	-5.412e+04	-8.683e+04
254	5	297	16.02	-0.40	-34.08	-33.23	-1.25	-5.29	-3.301e+04-1.193e+05	-5.170e+04	-1.006e+04
		272	18.24	15.02	0.26	13.12	2.16	4.94	1.354e+04-1.140e+05	8728.20	-1.092e+04
		3	10.01	26.29	-71.65	-62.83	17.46	-28.04	3.101e+04-4.550e+04	-2.847e+04	-1.397e+04
		298	18.04	3.86	-22.44	-21.75	3.17	4.21	-4.608e+04-1.363e+05	-7.447e+04	-1.079e+04
255	3	300	14.95	1.17	-20.87	-17.03	-2.68	8.36	-2.482e+04-1.095e+05	-3.193e+04	-1.024e+04
		273	14.02	3.73	-15.63	-11.10	-0.80	8.19	2075.09-9.242e+04	-1569.35	-8.878e+04
		272	12.57	2.39	-8.98	-8.61	2.02	-2.01	-315.04-8.373e+04	-6837.43	-7.721e+04
		297	14.26	-2.26	-17.09	-16.94	-2.41	1.49	-2.890e+04-1.061e+05	-4.120e+04	-9.381e+04
255	4	300	14.08	-0.80	-18.54	-14.90	-4.44	7.16	-2.310e+04-1.031e+05	-2.899e+04	-9.719e+04
		273	13.28	1.93	-14.25	-9.79	-2.52	7.22	2387.23-8.726e+04	-563.60	-8.430e+04
		272	12.02	0.10	-7.98	-7.55	-0.33	-1.81	141.14-7.993e+04	-5436.93	-7.435e+04
		297	13.46	-4.08	-14.88	-14.74	-4.22	1.22	-2.732e+04-1.001e+05	-3.749e+04	-6.997e+04
255	5	300	18.30	4.94	-27.28	-22.57	0.24	11.38	-3.100e+04-1.343e+05	-4.189e+04	-1.234e+04
		273	17.08	7.48	-19.85	-14.59	2.22	10.78	2036.56-1.128e+05	-3634.94	-1.071e+04
		272	15.03	6.80	-11.73	-11.37	6.44	-2.56	-1105.11-1.003e+05	-1.042e+04	-9.103e+04
		297	17.39	0.83	-22.81	-22.61	0.63	2.15	-3.542e+04-1.295e+05	-5.373e+04	-1.111e+04
256	3	301	13.99	2.02	-46.90	-29.08	-15.79	-23.54	-4.071e+04-1.063e+05	-4.075e+04	-1.063e+04
		276	18.76	34.48	0.04	31.39	3.12	9.84	3.429e+04-1.035e+05	2.429e+04	-9.355e+04
		5	7.73	12.46	-109.60	-76.47	-20.67	-54.28	-3.195e+04-5.625e+04	-4.126e+04	-4.695e+04
		291	14.58	19.94	-21.71	-21.69	19.92	0.91	-2.474e+04-1.072e+05	-6.445e+04	-6.746e+04
256	4	301	13.16	-0.10	-41.82	-25.69	-16.23	-20.31	-3.633e+04-9.969e+04	-3.644e+04	-9.958e+04
		276	17.54	31.05	-2.19	28.09	0.77	9.48	2.988e+04-9.831e+04	2.077e+04	-8.920e+04
		5	6.48	8.85	-97.83	-68.35	-20.63	-47.71	-2.884e+04-4.703e+04	-3.329e+04	-4.258e+04
		291	13.67	16.34	-19.52	-19.42	16.24	1.87	-2.402e+04-1.007e+05	-5.991e+04	-6.479e+04
256	5	301	17.13	6.12	-60.94	-38.16	-16.66	-31.76	-5.395e+04-1.307e+05	-5.398e+04	-1.307e+04
		276	23.41	44.20	4.00	40.57	7.62	11.52	4.764e+04-1.257e+05	3.473e+04	-1.128e+04

		5	11.32	20.20	-142.06	-98.94	-22.92	-71.67-3.702e+04-8.226e+04-6.096e+04-5.831e+04-2.258e+04
		291	17.93	28.58	-28.02	-28.01	28.57	-0.69-2.928e+04-1.314e+05-8.169e+04-7.901e+04-5.106e+04
257	3	332	13.63	-3.01	-28.11	-27.79	-3.33	-2.82-4.835e+04-1.048e+05-4.836e+04-1.048e+05 -654.46
		274	14.58	11.22	-0.55	10.98	-0.31	1.66 6284.89-9.368e+04 6202.24-9.359e+04 -2873.01
		4	3.81	16.50	-83.43	-78.83	11.90	-20.95-2.327e+04-2.498e+04-2.435e+04-2.389e+04 824.87
		329	14.32	10.95	-21.38	-15.87	5.44	12.16-4.481e+04-1.096e+05-4.795e+04-1.065e+05-1.393e+04
257	4	332	12.86	-4.52	-25.09	-24.58	-5.02	-3.18-4.407e+04-9.869e+04-4.410e+04-9.866e+04 -1365.17
		274	13.78	10.28	-2.56	10.19	-2.47	1.05 5156.97-8.892e+04 4993.35-8.875e+04 -3919.95
		4	3.27	12.62	-75.36	-70.74	8.00	-19.63-1.742e+04-2.371e+04-1.752e+04-2.361e+04 805.19
		329	13.45	8.43	-19.00	-13.69	3.13	10.83-4.240e+04-1.029e+05-4.474e+04-1.006e+05-1.167e+04
257	5	332	16.53	-0.46	-36.58	-36.42	-0.63	-2.45-6.295e+04-1.273e+05-6.297e+04-1.272e+05 916.09
		274	17.76	14.31	2.71	13.53	3.50	2.91 9392.25-1.133e+05 9380.29-1.133e+05 -1211.58
		4	5.68	25.20	-106.56	-101.42	20.06	-25.51-2.376e+04-4.033e+04-4.032e+04-2.378e+04 529.39
		329	17.56	16.72	-27.93	-21.38	10.17	15.80-5.557e+04-1.345e+05-6.110e+04-1.289e+05-2.014e+04
258	3	276	14.58	2.03	-33.63	-33.58	1.98	1.43-2.470e+04-1.068e+05-2.788e+04-1.036e+05-1.583e+04
		121	10.47	24.57	4.40	8.33	20.64	-7.99 1.379e+04-6.135e+04 1.370e+04-6.125e+04 2672.68
		254	10.83	-6.67	-9.20	-7.53	-8.34	1.20-1.268e+04-7.749e+04-1.763e+04-7.255e+04-1.720e+04
		5	12.70	60.69	-13.33	40.67	6.69	-32.89 6.293e+04-3.169e+04 6.285e+04-3.161e+04 -2725.64
258	4	276	13.88	-0.47	-29.76	-29.69	-0.55	1.47-2.114e+04-1.010e+05-2.390e+04-9.829e+04-1.459e+04
		121	9.87	20.20	3.72	7.42	16.50	-6.87 1.251e+04-5.887e+04 1.238e+04-5.874e+04 3041.03
		254	10.21	-6.22	-10.24	-6.87	-9.59	1.48-1.175e+04-7.291e+04-1.632e+04-6.834e+04-1.607e+04
		5	11.61	53.08	-12.93	36.35	3.80	-28.71 5.654e+04-3.023e+04 5.654e+04-3.023e+04 -380.13
258	5	276	17.61	6.71	-44.06	-44.02	6.66	1.51-3.504e+04-1.304e+05-3.955e+04-1.259e+05-2.025e+04
		121	12.59	34.99	5.99	10.82	30.16	-10.80 1.844e+04-7.240e+04 1.839e+04-7.236e+04 2038.14
		254	13.07	-6.75	-9.77	-9.51	-7.00	0.84-1.644e+04-9.402e+04-2.274e+04-8.773e+04-2.118e+04
		5	16.40	80.72	-15.56	52.62	12.54	-43.77 8.547e+04-3.535e+04 8.491e+04-3.479e+04 -8196.40
259	3	290	45.44	-5.36	-56.79	-46.95	-15.20	-20.23-1.862e+05-3.476e+05-3.108e+05-2.230e+05-6.775e+04
		310	26.52	-2.28	-50.82	-47.57	-5.53	-12.13-1.621e+05-1.868e+05-1.868e+05-1.621e+05 255.38
		323	25.58	-4.57	-43.60	-26.19	-21.99	-19.40-1.608e+05-1.773e+05-1.769e+05-1.621e+05 -2624.34
		264	36.51	-0.36	-58.41	-31.87	-26.90	-28.92-1.706e+05-2.768e+05-2.334e+05-2.140e+05-5.219e+04
259	4	290	41.92	-6.84	-48.83	-40.81	-14.87	-16.51-1.751e+05-3.207e+05-2.873e+05-2.084e+05-6.118e+04
		310	24.59	-4.17	-44.21	-41.86	-6.53	-9.41-1.516e+05-1.725e+05-1.723e+05-1.518e+05 1659.54
		323	23.74	-6.31	-37.75	-23.08	-20.98	-15.69-1.508e+05-1.634e+05-1.634e+05-1.509e+05 -751.17
		264	33.77	-2.52	-50.57	-28.43	-24.66	-23.95-1.610e+05-2.555e+05-2.165e+05-2.000e+05-4.657e+04
259	5	290	57.23	-3.15	-76.90	-62.72	-17.34	-29.07-2.266e+05-4.379e+05-3.901e+05-2.745e+05-8.846e+04
		310	33.24	0.99	-67.88	-62.63	-4.26	-18.27-1.989e+05-2.367e+05-2.365e+05-1.991e+05 -2852.74
		323	31.96	-1.84	-58.59	-34.40	-26.03	-28.07-1.967e+05-2.244e+05-2.224e+05-1.987e+05 -7250.30
		264	45.93	3.51	-78.28	-41.21	-33.57	-40.72-2.066e+05-3.492e+05-2.915e+05-2.643e+05-6.997e+04
260	3	260	10.80	8.42	1.63	8.31	1.75	0.86 2574.45-7.042e+04-6.938e+04 1533.46 -8654.61
		142	7.27	4.32	-1.95	4.12	-1.75	1.11 -535.30-4.855e+04-4.477e+04 -4309.14-1.292e+04
		324	12.85	5.58	-12.37	-10.34	3.54	5.69 1.180e+04-7.883e+04-7.740e+04 1.036e+04-1.131e+04
		281	12.09	-0.74	-7.37	-4.33	-3.79	3.30 6437.68-7.705e+04-7.614e+04 5535.85 8629.92
260	4	260	10.45	6.31	1.53	6.23	1.62	0.62 2348.98-6.826e+04-6.718e+04 1270.00 -8661.56
		142	7.05	2.35	-1.81	2.24	-1.70	0.68 -507.47-4.712e+04-4.344e+04 -4188.92-1.257e+04
		324	12.13	4.98	-11.99	-10.31	3.30	5.07 1.111e+04-7.444e+04-7.271e+04 9385.11-1.204e+04
		281	11.50	-1.76	-7.12	-5.25	-3.63	2.56 5541.10-7.359e+04-7.310e+04 5054.88 6183.82
260	5	260	12.64	13.08	1.98	12.91	2.15	1.39 3506.52-8.205e+04-8.100e+04 2456.23 -9421.30
		142	8.35	8.32	-2.41	7.93	-2.02	2.00 -741.21-5.571e+04-5.136e+04 -5094.18-1.484e+04
		324	15.62	7.25	-14.29	-11.36	4.33	7.38 1.511e+04-9.537e+04-9.428e+04 1.403e+04-1.089e+04
		281	14.65	1.30	-8.78	-3.03	-4.45	4.99 9458.36-9.251e+04-9.032e+04 7264.54 1.480e+04
261	3	304	13.83	-2.90	-16.29	-14.77	-4.42	-4.25-2.599e+04-1.022e+05-3.687e+04-9.133e+04-2.667e+04
		280	11.82	2.82	-9.89	-9.77	2.70	1.22 2159.82-7.745e+04 -3393.65-7.190e+04-2.028e+04
		279	13.90	2.19	-14.28	-8.59	-3.50	-7.83 2744.76-9.115e+04 -279.33-8.813e+04-1.658e+04
		303	14.78	1.25	-19.82	-13.90	-4.67	-9.47-3.015e+04-1.098e+05-3.725e+04-1.027e+05-2.268e+04
261	4	304	13.02	-4.48	-14.33	-12.83	-5.98	-3.54-2.502e+04-9.637e+04-3.372e+04-8.768e+04-2.334e+04
		280	11.33	0.50	-8.79	-8.63	0.34	1.20 2391.87-7.413e+04 -2199.35-6.954e+04-1.817e+04
		279	13.15	0.65	-13.13	-7.58	-4.90	-6.76 2795.72-8.612e+04 452.30-8.377e+04-1.424e+04
		303	13.87	-0.56	-17.62	-12.10	-6.07	-7.98-2.863e+04-1.031e+05-3.439e+04-9.731e+04-1.988e+04
261	5	304	16.90	-0.19	-21.56	-19.73	-2.01	-5.98-3.098e+04-1.247e+05-4.784e+04-1.079e+05-3.600e+04
		280	14.08	7.33	-12.88	-12.79	7.24	1.37 2222.49-9.232e+04 -6089.20-8.401e+04-2.677e+04
		279	16.93	5.38	-17.97	-11.28	-1.30	-10.56 3272.79-1.111e+05 -1709.33-1.061e+05-2.335e+04
		303	18.20	4.81	-25.92	-18.54	-2.57	-13.12-3.641e+04-1.350e+05-4.769e+04-1.237e+05-3.138e+04
262	3	112	47.24	10.83	-62.41	-61.49	9.91	-8.16-1.123e+05-3.537e+05-3.496e+05-1.163e+05-1.133e+04
		319	21.81	-1.82	-34.66	-34.59	-1.89	-1.51-1.044e+05-1.650e+05-1.558e+05-1.137e+05-2.175e+04
		288	36.17	-0.27	-54.13	-50.95	-3.45	-12.69-1.475e+05-2.764e+05-2.720e+05-1.519e+05-2.350e+04
		14	61.03	7.45	-61.27	-52.40	-1.43	-23.04-1.457e+05-4.580e+05-4.580e+05-1.458e+05 1778.42
262	4	112	44.32	6.36	-53.79	-53.15	5.72	-6.16-1.111e+05-3.333e+05-3.285e+05-1.158e+05-3.210e+04
		319	20.47	-3.80	-30.30	-30.23	-3.87	-1.39-1.019e+05-1.541e+05-1.449e+05-1.111e+05-1.992e+04
		288	33.62	-2.96	-46.88	-44.25	-5.58	-10.41-1.411e+05-2.569e+05-2.531e+05-1.449e+05-2.055e+04
		14	56.75	5.09	-52.50	-45.14	-2.27	-19.22-1.385e+05-4.266e+05-4.265e+05-1.385e+05 4615.66
262	5	112	57.74	20.09	-83.82	-82.25	18.52	-12.68-1.236e+05-4.288e+05-4.285e+05-1.258e+05-3.108e+04
		319	26.78	1.79	-45.94	-45.86	1.71	-1.89-1.193e+05-2.038e+05-1.939e+05-1.293e+05-2.723e+04
		288	45.17	4.46	-72.57	-68.05	-0.07	-18.12-1.735e+05-3.453e+05-3.390e+05-1.798e+05-3.219e+04
		14	75.37	12.93	-83.35	-71.06	0.65	-32.12-1.727e+05-5.636e+05-5.636e+05-1.728e+05 -4883.06
263	3	150	8.95	-0.56	-18.17	-17.06	-1.66	4.27 287.55-5.893e+04-5.354e+04 -5106.47 1.704e+04
		262	6.96	9.00	-2.28	2.95	3.77	-5.63 1.038e+04-4.034e+04-4.019e+04 1.023e+04 -2761.70
		284	13.97	-1.83	-20.36	-7.52	-14.66	8.55 1.431e+04-8.476e+04-6.290e+04 -7546.81 4.108e+04

		22	6.33	33.90	-9.03	12.98	11.89	-21.46	4.807e+04	1.900e+04	4.791e+04	1.917e+04	2179.30
263	4	150	8.44	-0.90	-16.48	-15.55	-1.83	3.69	-409.97	-5.596e+04	-5.126e+04	-5114.13	1.547e+04
		262	7.04	7.72	-2.23	2.03	3.47	-4.92	9509.51	-4.140e+04	-4.130e+04	9411.99	-2226.03
		284	13.02	-2.95	-18.72	-7.92	-13.76	7.33	1.156e+04	-8.010e+04	-6.245e+04	-6099.03	3.615e+04
		22	5.18	29.73	-9.20	8.88	11.65	-19.42	3.978e+04	1.798e+04	3.909e+04	1.867e+04	3815.65
263	5	150	10.81	0.05	-22.77	-21.25	-1.47	5.69	1442.55	-7.055e+04	-6.293e+04	-6174.90	2.214e+04
		262	7.51	12.19	-2.61	4.93	4.65	-7.40	1.383e+04	-4.169e+04	-4.136e+04	1.350e+04	-4255.94
		284	17.63	0.17	-25.08	-7.40	-17.51	11.57	2.213e+04	-1.043e+05	-7.060e+04	-1.160e+04	5.593e+04
		22	10.01	44.84	-9.80	21.77	13.27	-26.99	7.478e+04	2.418e+04	7.475e+04	2.421e+04	-1257.31
264	3	306	14.24	-3.31	-13.18	-8.91	-7.58	4.89	-9407.60	-9.892e+04	-8.629e+04	-2.204e+04	3.116e+04
		294	14.12	3.45	-25.52	-5.82	-16.25	13.51	-6437.31	-9.689e+04	-9.095e+04	-1.237e+04	2.240e+04
		322	16.61	-0.16	-24.64	-3.57	-21.23	8.48	-4.201e+04	-1.253e+05	-1.173e+05	-5.005e+04	2.460e+04
		320	14.57	-1.25	-14.62	-2.87	-12.99	4.37	-2.348e+04	-1.065e+05	-8.945e+04	-4.052e+04	3.353e+04
264	4	306	13.33	-4.30	-12.10	-9.50	-6.89	3.68	-1.065e+04	-9.337e+04	-8.317e+04	-2.084e+04	2.720e+04
		294	13.16	1.52	-22.89	-6.62	-14.74	11.51	-6974.62	-9.074e+04	-8.625e+04	-1.147e+04	1.888e+04
		322	15.56	-2.07	-21.81	-4.75	-19.14	6.75	-4.138e+04	-1.178e+05	-1.117e+05	-4.749e+04	2.073e+04
		320	13.65	-3.04	-12.87	-4.30	-11.62	3.28	-2.446e+04	-1.005e+05	-8.646e+04	-3.850e+04	2.951e+04
264	5	306	17.65	-1.46	-16.69	-8.60	-9.56	7.60	-7737.17	-1.209e+05	-1.011e+05	-2.751e+04	2.297e+04
		294	17.64	7.34	-32.83	-4.91	-20.57	18.50	-5574.56	-1.199e+05	-1.095e+05	-1.592e+04	3.279e+04
		322	20.59	3.37	-32.16	-1.77	-27.02	12.50	-4.733e+04	-1.543e+05	-1.406e+05	-6.104e+04	2.331e+04
		320	18.03	1.97	-19.28	-0.55	-16.77	6.86	-2.283e+04	-1.297e+05	-1.035e+05	-4.903e+04	4.598e+04
265	3	21	13.53	11.64	-31.29	10.48	-30.13	-6.96	7.211e+04	-2.857e+04	2.896e+04	1.458e+04	4.983e+04
		282	10.89	4.17	-5.95	-2.67	0.89	4.74	-1567.68	-7.317e+04	-6.889e+04	-5850.94	1.698e+04
		306	13.31	-6.17	-14.89	-9.51	-11.56	4.24	-381.61	-8.860e+04	-7.341e+04	-1.557e+04	2.331e+04
		335	13.70	-1.19	-14.63	-8.68	-7.14	6.68	-2.717e+04	-1.014e+05	-9.468e+04	-3.393e+04	2.136e+04
265	4	21	12.06	8.09	-30.23	6.17	-28.31	-8.35	6.425e+04	-2.519e+04	2.286e+04	1.620e+04	4.460e+04
		282	10.46	3.65	-6.22	-3.99	1.42	4.12	-2227.82	-7.060e+04	-6.750e+04	-5331.96	1.423e+04
		306	12.36	-7.83	-13.30	-10.36	-10.78	2.73	-2560.69	-8.335e+04	-7.113e+04	-1.478e+04	2.894e+04
		335	12.92	-1.20	-13.44	-8.19	-6.44	6.06	-2.716e+04	-9.607e+04	-9.079e+04	-3.244e+04	2.183e+04
265	5	21	18.22	19.84	-36.63	19.39	-36.17	-5.04	9.877e+04	-3.673e+04	4.798e+04	1.406e+04	6.560e+04
		282	12.98	6.05	-6.57	-0.49	-0.02	6.31	-45.16	-8.638e+04	-7.883e+04	-7599.22	2.440e+04
		306	16.69	-3.54	-19.31	-8.79	-14.07	7.43	4484.41	-1.086e+05	-8.474e+04	-1.934e+04	4.610e+04
		335	16.65	-1.21	-18.20	-10.33	-9.08	8.47	-3.094e+04	-1.227e+05	-1.119e+05	-4.174e+04	2.957e+04
266	3	153	16.30	-0.72	-19.89	-12.03	-8.58	9.42	1.250e+04	-1.012e+05	-5.459e+04	-3.415e+04	4.594e+04
		285	11.32	-2.39	-8.42	-5.23	-5.58	3.01	2436.08	-7.400e+04	-5.639e+04	-1.517e+04	3.218e+04
		286	19.13	0.65	-29.56	-8.98	-19.93	14.07	-1.878e+04	-1.351e+05	-9.575e+04	-5.811e+04	4.502e+04
		18	9.64	5.39	0.72	3.27	2.85	-2.33	3.586e+04	-3.824e+04	2.694e+04	-2.932e+04	2.411e+04
266	4	153	15.01	-1.99	-17.69	-11.26	-8.42	7.72	7794.34	-9.541e+04	-5.489e+04	-3.272e+04	4.040e+04
		285	10.70	-3.49	-8.00	-5.85	-5.64	2.25	-937.66	-7.159e+04	-5.728e+04	-1.525e+04	2.840e+04
		286	17.76	-1.48	-26.76	-9.22	-19.02	11.65	-2.359e+04	-1.277e+05	-9.501e+04	-5.627e+04	4.831e+04
		18	8.55	4.42	-1.67	-0.12	2.88	-2.65	2.624e+04	-3.895e+04	1.703e+04	-2.974e+04	2.270e+04
266	5	153	20.75	1.68	-25.52	-14.26	-9.58	13.40	2.375e+04	-1.240e+05	-5.836e+04	-4.189e+04	7.342e+04
		285	13.84	-0.38	-10.15	-4.54	-5.99	4.83	1.035e+04	-8.637e+04	-5.916e+04	-1.686e+04	3.49e+04
		286	24.18	4.81	-37.21	-9.23	-23.17	19.82	-9644.71	-1.646e+05	-1.066e+05	-6.770e+04	5.02e+04
		18	13.40	10.13	2.53	9.77	2.89	-1.61	6.337e+04	-3.862e+04	5.408e+04	-2.933e+04	2.935e+04
267	3	287	23.49	9.88	-31.89	-23.76	1.74	16.54	-8.208e+04	-1.795e+05	-1.515e+05	-1.101e+04	5.413e+04
		19	23.90	2.58	-75.21	-37.11	-35.52	38.89	9087.51	-1.531e+05	-1.449e+05	879.01	3.556e+04
		319	22.15	-3.17	-24.95	-23.16	-4.97	5.98	-9.687e+04	-1.692e+05	-1.692e+05	-9.688e+04	431.02
267	4	287	22.25	7.40	-28.12	-21.67	0.94	13.70	-8.282e+04	-1.703e+05	-1.448e+05	-1.084e+04	5.978e+04
		19	21.33	-0.50	-68.72	-33.27	-35.95	34.08	3983.44	-1.390e+05	-1.330e+05	-2000.54	2.863e+04
		319	20.79	-5.15	-21.45	-20.24	-6.36	4.27	-9.597e+04	-1.582e+05	-1.582e+05	-9.597e+04	-576.75
267	5	287	28.52	15.60	-41.84	-29.80	3.56	23.38	-8.688e+04	-2.166e+05	-1.798e+05	-1.238e+05	5.852e+04
		19	31.86	8.66	-94.00	-47.37	-37.97	51.11	2.378e+04	-1.973e+05	-1.827e+05	9193.47	5.489e+04
		319	27.16	0.24	-33.81	-30.74	-2.83	9.75	-1.083e+05	-2.080e+05	-2.079e+05	-1.084e+05	5.2869.78
268	3	319	22.75	-3.06	-34.06	-22.23	-14.89	15.06	-1.005e+05	-1.734e+05	-1.668e+05	-1.071e+05	2.098e+04
		313	23.46	0.18	-40.56	-33.60	-6.78	15.33	-9.083e+04	-1.794e+05	-1.792e+05	-9.108e+04	4674.76
		331	28.44	1.57	-56.68	-43.71	-11.40	24.23	-1.280e+05	-2.161e+05	-2.108e+05	-1.332e+05	2.088e+04
		288	36.69	2.61	-54.29	-42.55	-9.12	23.02	-1.523e+05	-2.803e+05	-2.83e+05	-1.843e+05	5.547e+04
268	4	319	21.29	-5.15	-29.66	-20.30	-14.52	11.91	-9.840e+04	-1.618e+05	-1.567e+05	-1.036e+05	1.731e+04
		313	21.77	-1.90	-35.51	-30.18	-7.24	12.28	-8.749e+04	-1.665e+05	-1.664e+05	-8.756e+04	2340.66
		331	26.27	-0.70	-49.61	-38.67	-11.63	20.38	-1.219e+05	-1.991e+05	-1.947e+05	-1.263e+05	1.801e+04
		288	34.10	0.07	-47.08	-37.43	-9.58	19.03	-1.454e+05	-2.604e+05	-2.310e+05	-1.747e+05	5.014e+04
268	5	319	28.11	0.55	-45.30	-27.80	-16.95	22.27	-1.140e+05	-2.150e+05	-2.042e+05	-1.248e+05	5.116e+04
		313	29.43	4.08	-53.67	-43.03	-6.57	22.39	-1.056e+05	-2.249e+05	-2.239e+05	-1.065e+05	1.043e+04
		331	35.89	5.89	-75.03	-57.10	-12.04	33.61	-1.519e+05	-2.734e+05	-2.655e+05	-1.598e+05	2.992e+04
		288	45.72	7.60	-72.72	-56.01	-9.10	32.60	-1.800e+05	-3.495e+05	-3.084e+05	-2.211e+05	5.265e+04
269	3	286	17.36	-0.68	-23.29	-23.14	-0.82	1.79	-1.669e+04	-1.224e+05	-1.218e+05	-1.734e+04	-8266.17
		308	13.37	-1.50	-15.72	-12.33	-4.89	6.06	-3.407e+04	-1.009e+05	-9.558e+04	-3.944e+04	-1.816e+04
		19	26.88	8.27	-52.10	-50.55	6.72	-9.54	-2.201e+04	-1.876e+05	-1.587e+05	-5.085e+04	-6.280e+04
		287	23.74	7.40	-39.76	-35.92	3.57	12.89	-5.043e+04	-1.759e+05	-1.711e+05	-5.524e+04	2.410e+04
269	4	286	16.17	-2.62	-20.81	-20.75	-2.68	1.04	-2.086e+04	-1.161e+05	-1.151e+05	-2.185e+04	-8263.30
		308	12.78	-2.64	-14.47	-11.58	-5.53	5.08	-3.524e+04	-9.696e+04	-9.059e+04	-4.160e+04	-1.877e+04
		19	24.34	6.94	-46.03	-44.75	5.66	-8.14	-2.282e+04	-1.710e+05	-1.438e+05	-5.008e+04	-5.742e+04
		287	22.21	3.34	-35.23	-31.99	0.11	10.69	-5.552e+04	-1.666e+05	-1.625e+05	-5.962e+04	2.095e+04
269	5	286	22.73	3.05	-29.91	-29.55	2.69	3.41	-8319.47	-1.478e+05	-1.478e+05	-8583.07	-6058.95
		308	16.00	0.60	-19.52	-14.92	-4.00	8.45	-3.466e+04	-1.194e+05	-1.152e+05	-3.884e+04	-1.835e+04
		19	34.91	11.58	-67.72	-65.60	9.46	-12.79	-1.989e+04	-2.399e+05	-2.050e+05	-5.474e+04	-8.032e+04

		287	29.51	15.60	-51.71	-46.43	10.32	18.10-4.324e+04-2.129e+05-2.060e+05-5.012e+043.348e+04
270	3	14	59.65	-1.05	-59.82	-59.13	-1.74	-6.33-1.241e+05-4.431e+05-4.354e+05-1.317e+054.878e+04
		288	38.00	1.20	-52.87	-52.79	1.12	2.02-1.529e+05-2.907e+05-2.893e+05-1.543e+051.374e+04
		289	46.28	-4.59	-59.80	-57.29	-7.10	-11.50-1.845e+05-3.542e+05-3.502e+05-1.885e+05-2.563e+04
		119	77.72	-5.42	-70.01	-66.78	-8.66	-14.09-1.673e+05-5.789e+05-5.777e+05-1.685e+05-2.200e+04
270	4	14	55.34	-3.79	-51.57	-50.95	-4.40	-5.38-1.191e+05-4.122e+05-4.045e+05-1.269e+054.696e+04
		288	35.32	-0.90	-45.80	-45.72	-0.98	1.91-1.458e+05-2.702e+05-2.688e+05-1.472e+051.287e+04
		289	42.73	-6.28	-51.55	-49.46	-8.38	-9.52-1.741e+05-3.270e+05-3.235e+05-1.776e+05-2.293e+04
		119	71.64	-6.60	-59.71	-57.20	-9.12	-11.28-1.585e+05-5.348e+05-5.339e+05-1.594e+05-1.845e+04
270	5	14	73.97	3.78	-81.26	-80.25	2.76	-9.25-1.439e+05-5.466e+05-5.385e+05-1.520e+055.643e+04
		288	47.41	5.44	-70.85	-70.77	5.36	2.51-1.812e+05-3.626e+05-3.610e+05-1.828e+051.675e+04
		289	58.19	-2.01	-80.71	-77.12	-5.60	-16.42-2.236e+05-4.452e+05-4.399e+05-2.289e+05-3.403e+04
		119	97.80	-3.82	-95.04	-90.22	-8.64	-20.42-2.013e+05-7.259e+05-7.240e+05-2.032e+05-3.176e+04
271	3	13	70.25	-11.02	-59.97	-52.25	-18.75	17.84-1.671e+05-5.271e+05-4.950e+05-1.992e+051.025e+05
		290	47.52	-5.36	-58.73	-51.97	-12.12	17.75-1.868e+05-3.638e+05-3.494e+05-2.012e+054.835e+04
		264	33.36	1.79	-57.30	-57.25	1.74	1.75-1.659e+05-2.508e+05-2.501e+05-1.666e+05-7633.88
		70	74.86	-6.95	-72.34	-68.65	-10.64	15.09-1.786e+05-5.615e+05-5.566e+05-1.835e+054.312e+04
271	4	13	64.75	-11.17	-51.66	-45.26	-17.56	14.77-1.564e+05-4.864e+05-4.573e+05-1.856e+059.365e+04
		290	43.83	-6.84	-50.46	-44.87	-12.43	14.58-1.756e+05-3.356e+05-3.229e+05-1.884e+054.328e+04
		264	30.89	-0.78	-49.60	-49.57	-0.82	1.26-1.571e+05-2.315e+05-2.308e+05-1.579e+05-7487.29
		70	68.98	-7.95	-61.87	-58.87	-10.95	12.36-1.686e+05-5.184e+05-5.143e+05-1.728e+053.799e+04
271	5	13	88.13	-11.91	-81.13	-70.55	-22.49	24.91-2.039e+05-6.598e+05-6.186e+05-2.451e+051.306e+05
		290	59.95	-3.14	-79.57	-70.00	-12.71	25.29-2.274e+05-4.589e+05-4.396e+05-2.466e+056.394e+04
		264	41.84	6.64	-76.86	-76.77	6.54	2.77-1.998e+05-3.162e+05-3.156e+05-2.004e+05-8690.03
		70	94.26	-5.82	-98.09	-92.71	-11.20	21.62-2.162e+05-7.048e+05-6.976e+05-2.233e+055.856e+04
272	3	5	18.55	69.20	-7.99	50.27	10.94	33.21 9.037e+04-4.765e+04 7.399e+04-3.127e+04 4.464e+04
		254	9.41	-0.42	-24.24	-8.08	-16.58	-11.12-2.105e+04-7.009e+04-2.124e+04-6.989e+04 3111.46
		122	9.38	15.87	-6.65	7.95	1.27	10.75 1.489e+04-5.327e+04 6052.62-4.443e+04 2.290e+04
		327	10.94	21.74	-41.57	-41.49	21.65	-2.32-2.542e+04-8.167e+04-3.707e+04-7.001e+04 2.280e+04
272	4	5	16.68	61.98	-9.01	44.95	8.02	30.32 8.033e+04-4.396e+04 6.617e+04-2.980e+04 3.949e+04
		254	8.88	-1.44	-23.01	-7.29	-17.16	-9.59-1.897e+04-6.589e+04-1.926e+04-6.561e+04 3644.83
		122	8.77	14.02	-7.63	6.99	-0.60	10.14 1.323e+04-5.019e+04 5361.53-4.233e+04 2.090e+04
		327	10.49	17.41	-37.12	-37.09	17.38	-1.39-2.163e+04-7.765e+04-3.181e+04-6.747e+04 2.160e+04
272	5	5	24.41	89.32	-7.02	65.01	17.29	41.84 1.234e+05-5.720e+04 1.006e+05-3.437e+04 6.001e+04
		254	11.29	1.59	-29.24	-10.35	-17.31	-15.02-2.810e+04-8.481e+04-2.816e+04-8.475e+04 1804.07
		122	11.51	20.90	-5.70	10.50	4.71	12.98 2.042e+04-6.388e+04 8595.99-5.205e+04 2.928e+04
		327	13.02	31.73	-53.89	-53.68	31.52	-4.22-3.599e+04-9.832e+04-5.210e+04-8.221e+04 2.729e+04
273	3	16	12.60	62.48	-4.05	16.35	42.07	30.68 7.467e+04-1.359e+04 4.617e+04 1.491e+04 4.127e+04
		138	9.93	-0.34	-24.39	-0.38	-24.35	-1.05-5537.51-6.803e+04-6876.25-6.669e+04 9047.90
		257	10.03	20.41	-4.80	-0.60	16.21	9.40 1.970e+04-5.462e+04-274.16-3.465e+04 3.294e+04
		278	12.76	12.17	-39.98	-30.72	2.91	-19.92-2.679e+04-9.452e+04-3.110e+04-9.020e+04 1.655e+04
273	4	16	11.46	54.92	-5.14	14.94	34.83	28.34 6.660e+04-1.450e+04 4.213e+04 9962.80 3.722e+04
		138	9.16	-0.75	-22.96	-0.75	-22.95	-0.36-5539.12-6.293e+04-7001.25-6.147e+04 9042.78
		257	9.48	17.21	-5.50	-0.83	12.55	9.17 1.750e+04-5.239e+04-462.33-3.443e+04 3.054e+04
		278	12.20	8.78	-35.66	-28.13	1.25	-16.67-2.313e+04-8.980e+04-2.828e+04-8.464e+04 1.781e+04
273	5	16	16.47	82.59	-2.72	20.56	59.30	38.01 1.021e+05-1.019e+04 6.194e+04 2.999e+04 5.383e+04
		138	12.37	0.42	-29.50	0.23	-29.31	-2.37-6394.06-8.452e+04-7500.08-8.341e+04 9229.56
		257	12.09	28.43	-4.27	-0.24	24.40	10.75 2.710e+04-6.340e+04 1044.37-3.735e+04 4.097e+04
		278	15.34	19.48	-51.82	-38.50	6.16	-27.78-3.734e+04-1.148e+05-4.050e+04-1.117e+051.533e+04
274	3	294	14.75	7.10	-22.49	-22.21	6.81	-2.89-2.208e+04-1.072e+05-6.307e+04-6.620e+04-4.253e+04
		20	12.40	16.90	-83.45	-68.55	1.99	35.69 4.388e+04-5.072e+04-4.302e+04 3.617e+04-2.587e+04
		280	15.78	27.30	-1.43	25.23	0.64	-7.42 1.946e+04-9.347e+04 9040.34-8.305e+04-3.268e+04
		304	12.25	-2.66	-28.80	-24.53	-6.92	9.66-2.362e+04-9.071e+04-4.644e+04-6.788e+04-3.179e+04
274	4	294	13.75	6.10	-20.41	-20.04	5.74	-3.09-2.150e+04-1.002e+05-5.804e+04-6.326e+04-3.926e+04
		20	10.72	12.04	-76.08	-61.66	-2.38	32.60 3.914e+04-4.307e+04-3.430e+04 3.037e+04-2.538e+04
		280	14.89	25.22	-3.15	23.09	-1.02	-7.48 1.660e+04-8.929e+04 7403.55-8.009e+04-2.982e+04
		304	11.52	-4.30	-26.34	-21.87	-8.77	8.86-2.237e+04-8.544e+04-4.169e+04-6.612e+04-2.908e+04
274	5	294	18.33	9.71	-28.52	-28.31	9.50	-2.80-2.592e+04-1.327e+05-8.132e+04-7.729e+04-5.334e+04
		20	17.44	27.49	-105.12	-87.71	10.08	44.78 6.169e+04-7.072e+04-6.417e+04 5.514e+04-2.869e+04
		280	19.38	33.73	1.54	31.57	3.70	-8.06 2.788e+04-1.123e+05 1.387e+04-9.830e+04-4.204e+04
		304	14.90	0.30	-36.29	-31.76	-4.23	12.04-2.876e+04-1.104e+05-6.127e+04-7.785e+04-3.995e+04
275	3	314	26.02	-1.32	-70.08	-60.61	-10.78	23.69-1.556e+05-1.850e+05-1.834e+05-1.572e+05-6581.22
		311	16.17	11.39	-29.27	-29.27	11.39	-0.17-6.171e+04-1.244e+05-8.103e+04-1.051e+05-2.894e+04
		325	15.17	-4.95	-20.01	-18.84	-6.12	4.02-7.727e+04-1.141e+05-7.753e+04-1.139e+05-3048.81
		7	17.44	34.21	-22.44	-0.91	12.68	-27.50-4.309e+04-1.310e+05-6.293e+04-1.112e+05-3.676e+04
275	4	314	24.09	-3.55	-61.61	-53.48	-11.68	20.15-1.455e+05-1.705e+05-1.676e+05-1.484e+05-8011.41
		311	15.19	8.40	-25.67	-25.64	8.37	-1.03-5.721e+04-1.168e+05-7.401e+04-1.000e+05-2.682e+04
		325	14.23	-6.76	-17.15	-16.13	-7.78	3.09-7.145e+04-1.072e+05-7.171e+04-1.070e+05-3020.00
		7	16.05	30.47	-20.69	0.26	9.52	-25.15-4.185e+04-1.211e+05-5.835e+04-1.046e+05-3.216e+04
275	5	314	32.85	2.59	-92.32	-79.51	-10.23	32.43-1.916e+05-2.360e+05-2.356e+05-1.919e+05-3970.57
		311	19.77	18.03	-38.81	-38.78	17.99	1.37-7.730e+04-1.522e+05-1.039e+05-1.256e+05-3.681e+04
		325	18.57	-2.17	-27.26	-25.68	-3.76	6.11-9.830e+04-1.386e+05-9.848e+04-1.385e+05-2666.55
		7	21.83	44.52	-28.03	-3.21	19.70	-34.42-4.695e+04-1.624e+05-7.619e+04-1.332e+05-5.021e+04
276	3	296	13.14	-2.13	-18.34	-5.82	-14.65	-6.80-1.643e+04-9.439e+04-8.522e+04-2.559e+04-2.510e+04
		299	14.17	0.88	-15.32	-10.46	-3.99	-7.43-1.097e+04-9.908e+04-9.675e+04-1.330e+04-1.413e+04
		271	12.89	-0.10	-10.84	-5.15	-5.79	-5.36 3908.59-8.378e+04-8.349e+04 3615.21-5063.65
		270	10.47	1.38	-8.10	1.36	-8.08	-0.47 1.066e+04-6.371e+04-6.027e+04 7210.72-1.563e+04



276	4	296	12.27	-3.68	-16.31	-6.66	-13.33	-5.37-1.736e+04-8.886e+04-8.202e+04-2.420e+04-2.103e+04
		299	13.30	-0.44	-14.15	-10.91	-3.68	-5.83-1.145e+04-9.347e+04-9.191e+04-1.301e+04-1.121e+04
		271	12.26	-1.28	-10.00	-6.03	-5.24	-4.34 3540.60-7.979e+04-7.968e+04 3434.57 -2970.46
		270	10.01	-0.68	-7.39	-0.69	-7.38	0.27 9576.85-6.130e+04-5.888e+04 7156.78-1.287e+04
276	5	296	16.28	0.57	-23.78	-4.79	-18.42	-10.08-1.629e+04-1.154e+05-9.982e+04-3.184e+04-3.605e+04
		299	17.45	3.66	-19.20	-10.62	-4.93	-11.07-1.094e+04-1.209e+05-1.163e+05-1.558e+04-2.212e+04
		271	15.59	2.23	-13.60	-4.01	-7.35	-7.74 5413.53-1.011e+05-1.001e+05 4448.01-1.009e+04
		270	12.54	5.46	-10.34	5.23	-10.11	-1.87 1.468e+04-7.504e+04-6.870e+04 8340.76-2.299e+04
277	3	266	16.48	0.67	-24.96	-4.78	-19.50	-10.49-3.378e+04-1.223e+05-1.051e+05-5.098e+04-3.502e+04
		307	15.46	0.61	-21.57	-11.64	-9.31	-11.03-4.129e+04-1.168e+05-1.148e+05-4.329e+04-1.212e+04
		299	13.52	1.92	-19.91	-12.70	-5.30	-10.27-1.566e+04-9.647e+04-9.588e+04-1.625e+04 -6883.06
		296	13.23	-2.40	-16.50	-5.55	-13.35	-5.87-1.755e+04-9.552e+04-9.186e+04-2.120e+04-1.648e+04
277	4	266	15.39	-1.16	-22.40	-5.74	-17.83	-8.73-3.526e+04-1.152e+05-1.016e+05-4.884e+04-3.001e+04
		307	14.42	-0.69	-19.29	-11.57	-8.41	-9.17-4.065e+04-1.094e+05-1.082e+05-4.181e+04 -8865.14
		299	12.65	0.17	-17.90	-12.77	-4.96	-8.15-1.599e+04-9.077e+04-9.054e+04-1.622e+04 -4143.54
		296	12.39	-3.72	-14.85	-6.15	-12.42	-4.60-1.819e+04-9.005e+04-8.760e+04-2.064e+04-1.306e+04
277	5	266	20.53	4.18	-31.99	-3.47	-24.34	-14.77-3.378e+04-1.500e+05-1.226e+05-6.110e+04-4.927e+04
		307	19.14	3.22	-27.85	-12.84	-11.79	-15.52-4.654e+04-1.437e+05-1.392e+05-5.106e+04-2.046e+04
		299	16.72	5.47	-25.67	-13.77	-6.42	-15.13-1.654e+04-1.182e+05-1.163e+05-1.846e+04-1.384e+04
		296	16.30	-0.14	-21.06	-4.94	-16.26	-8.80-1.817e+04-1.164e+05-1.093e+05-2.530e+04-2.548e+04
278	3	8	17.16	37.66	-20.03	20.17	-2.54	26.52-3.761e+04-1.276e+05-5.041e+04-1.148e+05 53.143e+04
		332	14.16	1.32	-34.50	-28.77	-4.41	-13.13-6.879e+04-1.074e+05-7.080e+04-1.054e+05 8568.91
		329	12.73	3.99	-17.93	-17.35	3.41	3.51-3.047e+04-9.583e+04-4.590e+04-8.041e+04 2.775e+04
		328	18.94	6.35	-50.26	-50.26	6.35	0.32-1.031e+05-1.399e+05-1.180e+05-2.530e+05 1.808e+04
278	4	8	15.75	34.28	-19.20	19.18	-4.10	24.08-3.768e+04-1.178e+05-4.833e+04-1.071e+05 2.720e+04
		332	13.37	-0.59	-30.97	-25.22	-6.34	-11.91-6.287e+04-1.017e+05-6.453e+04-1.001e+05 7864.52
		329	11.91	1.56	-15.73	-15.04	0.87	3.38-2.883e+04-8.968e+04-4.192e+04-7.659e+04 2.500e+04
		328	17.63	3.71	-44.21	-44.20	3.70	0.65-9.580e+04-1.304e+05-1.072e+05-1.190e+05 1.627e+04
278	5	8	21.58	47.58	-23.65	23.84	0.09	33.58-3.881e+04-1.582e+05-5.778e+04-1.392e+05 3.364e+04
		332	17.31	5.02	-44.49	-38.07	-1.40	-16.62-8.982e+04-1.298e+05-9.285e+04-1.268e+05 1.060e+04
		329	15.62	8.83	-23.82	-23.30	8.31	4.08-3.724e+04-1.176e+05-5.961e+04-9.522e+04 3.601e+04
		328	23.66	11.80	-66.18	-66.18	11.80	-0.22-1.283e+05-1.748e+05-1.533e+05-1.498e+05 2.317e+04
279	3	309	23.52	-2.23	-38.45	-22.94	-17.74	-17.92-1.205e+05-1.763e+05-1.641e+05-1.138e+05 1281.48
		328	18.59	3.23	-37.31	-28.39	-5.69	-16.80-8.175e+04-1.420e+05-1.343e+05-8.952e+04 2.020e+04
		318	16.82	3.15	-28.94	-15.63	-10.17	-15.81-6.526e+04-1.293e+05-1.233e+05-7.119e+04 1.855e+04
		317	17.56	-0.83	-29.56	-12.74	-17.66	-14.15-6.742e+04-1.348e+05-1.344e+05-6.789e+04 5628.59
279	4	309	21.95	-4.17	-33.38	-20.87	-16.68	-14.45-1.136e+05-1.643e+05-1.641e+05-1.138e+05 3297.40
		328	17.33	1.06	-32.72	-25.75	-5.92	-13.68-7.617e+04-1.324e+05-1.237e+05-8.492e+04 2.038e+04
		318	15.81	0.77	-25.30	-14.70	-9.83	-12.80-6.122e+04-1.215e+05-1.148e+05-6.797e+04 1.901e+04
		317	16.47	-3.00	-25.84	-12.38	-16.46	-11.24-6.400e+04-1.265e+05-1.256e+05-6.488e+04 7359.46
279	5	309	29.20	1.09	-51.42	-28.96	-21.37	-25.98-1.460e+05-2.198e+05-2.197e+05-1.462e+05 -2971.86
		328	23.07	7.55	-49.34	-35.98	-5.82	-24.12-1.011e+05-1.763e+05-1.696e+05-1.078e+05 2.140e+04
		318	20.66	7.80	-38.43	-18.88	-11.75	-22.84-8.045e+04-1.588e+05-1.539e+05-8.530e+04 1.889e+04
		317	21.66	3.01	-39.20	-14.68	-21.52	-20.83-8.092e+04-1.662e+05-1.662e+05-8.097e+04 2059.50
280	3	299	16.59	0.59	-32.38	-7.97	-23.83	-14.45-1.054e+04-1.146e+05-7.795e+04-4.722e+04-4.972e+04
		298	10.92	10.59	-17.07	10.00	-16.48	4.00-3.370e+04-8.335e+04-6.658e+04-5.047e+04-2.348e+04
		3	20.49	8.65	-67.62	-8.77	-50.20	-32.02 2.268e+04-1.224e+05-8.167e+04-1.803e+04-6.518e+04
		271	12.68	14.03	-3.30	-2.95	13.67	2.47 9719.53-7.910e+04-6.854e+04 -845.61-2.875e+04
280	4	299	15.28	-0.84	-29.04	-8.86	-21.02	-12.72-1.098e+04-1.062e+05-7.484e+04-4.232e+04-4.473e+04
		298	10.40	7.21	-15.02	6.60	-14.42	3.62-3.292e+04-7.948e+04-6.541e+04-6.699e+04-2.138e+04
		3	18.41	6.63	-60.44	-8.50	-45.31	-28.04 2.159e+04-1.093e+05-7.520e+04-1.253e+04-5.747e+04
		271	12.19	12.58	-4.56	-4.36	12.38	1.86 8497.13-7.647e+04-6.687e+04 -1103.74-2.690e+04
280	5	299	21.06	3.37	-41.66	-7.05	-31.24	-19.00-1.028e+04-1.442e+05-9.153e+04-6.292e+04-6.539e+04
		298	13.18	17.81	-22.51	17.17	-21.87	5.06-3.860e+04-1.003e+05-7.457e+04-6.432e+04-3.041e+04
		3	27.03	13.16	-87.21	-10.06	-63.99	-42.33 2.962e+04-1.615e+05-1.013e+05-3.054e+04-8.876e+04
		271	15.08	18.14	-1.42	-0.64	17.36	3.82 1.350e+04-9.296e+04-7.919e+04 -265.01-3.572e+04
281	3	291	14.44	0.85	-26.13	-12.25	-13.03	13.49-3.624e+04-1.090e+05-4.219e+04-1.031e+05-1.994e+04
		275	13.99	2.85	-3.59	-0.81	0.06	3.19 -457.20-9.341e+04-1.003e+04-8.384e+04-2.825e+04
		274	12.20	2.28	-16.91	-16.85	2.23	1.00 -8853.61-8.516e+04-1.428e+04-7.973e+04-1.962e+04
		332	13.93	-0.22	-15.32	-14.80	-0.73	2.75-4.473e+04-1.067e+05-4.764e+04-1.038e+05-1.310e+04
281	4	291	13.63	-1.29	-23.04	-11.23	-13.10	10.83-3.294e+04-1.026e+05-3.916e+04-9.643e+04-1.987e+04
		275	13.30	0.63	-3.23	-0.93	-1.67	1.89 21.59-8.866e+04 -9470.25-7.917e+04-2.742e+04
		274	11.65	0.10	-15.24	-15.24	0.10	-0.10 -7299.84-8.090e+04-1.291e+04-7.528e+04-1.954e+04
		332	13.18	-2.15	-13.37	-13.19	-2.33	1.40-4.123e+04-1.009e+05-4.444e+04-9.769e+04-1.346e+04
281	5	291	17.58	4.84	-34.43	-15.33	-14.26	19.63-4.735e+04-1.335e+05-5.301e+04-1.278e+05-2.134e+04
		275	16.89	7.39	-4.91	-0.66	3.14	5.85 -1325.75-1.130e+05-1.197e+04-1.023e+05-3.279e+04
		274	14.55	6.60	-21.82	-21.48	6.27	3.07-1.307e+04-1.024e+05-1.876e+04-9.672e+04-2.181e+04
		332	16.83	3.35	-20.53	-19.21	2.03	5.46-5.724e+04-1.291e+05-5.977e+04-1.266e+05-1.323e+04
282	3	264	33.91	9.52	-57.89	-50.39	2.02	-21.20-1.514e+05-2.580e+05-2.541e+05-1.554e+05-2.016e+04
		8	27.97	13.85	-105.17	-99.44	8.12	25.48-6.699e+04-2.077e+05-1.644e+05-1.103e+05 2.497e+04
		328	16.94	9.11	-15.46	-5.07	-1.28	-12.14-6.675e+04-1.302e+05-7.481e+04-1.221e+05 2.113e+04
		309	25.17	-8.34	-50.99	-50.72	-8.61	3.34-1.106e+05-1.916e+05-1.742e+05-1.280e+05 3.326e+04
282	4	264	31.48	6.02	-50.39	-43.59	-0.77	-18.36-1.444e+05-2.392e+05-2.358e+05-1.477e+05-1.746e+04
		8	24.99	11.19	-93.15	-87.85	5.90	22.90-6.258e+04-1.862e+05-1.459e+05-1.029e+05 2.797e+04
		328	16.11	6.59	-13.58	-4.11	-2.88	-10.07-6.249e+04-1.239e+05-7.022e+04-1.161e+05 2.037e+04
		309	23.30	-9.18	-44.85	-44.45	-9.58	3.76-1.042e+05-1.772e+05-1.599e+05-1.214e+05 3.103e+04
282	5	264	42.50	16.77	-77.22	-67.68	7.24	-28.37-1.801e+05-3.241e+05-3.184e+05-1.858e+05-2.811e+04

		8	37.06	20.11	-137.13	-130.08	13.05	32.55-7.967e+04-2.731e+05-2.191e+05-1.337e+058.675e+04
		328	20.33	14.69	-20.59	-7.43	1.53	-17.06-8.212e+04-1.561e+05-9.138e+04-1.468e+052.448e+04
		309	31.65	-7.47	-67.19	-67.05	-7.61	2.87-1.336e+05-2.412e+05-2.215e+05-1.533e+054.166e+04
283	3	310	26.07	-5.22	-46.34	-38.22	-13.34	16.37-1.642e+05-1.804e+05-1.735e+05-1.711e+05 8031.50
		315	18.20	2.78	-33.54	-29.25	-1.52	11.72-8.977e+04-1.379e+05-9.465e+04-1.330e+05-1.452e+04
		321	18.59	4.34	-40.29	-39.97	4.02	3.75-9.539e+04-1.398e+05-9.668e+04-1.385e+05 7464.96
		323	25.29	-3.32	-40.28	-38.80	-4.80	7.24-1.598e+05-1.749e+05-1.678e+05-1.669e+05 7558.70
283	4	310	24.17	-6.91	-40.11	-33.20	-13.82	13.48-1.535e+05-1.663e+05-1.595e+05-1.602e+05 6359.25
		315	17.12	0.15	-29.02	-25.46	-3.41	9.56-8.204e+04-1.301e+05-8.702e+04-1.252e+05-1.466e+04
		321	17.45	1.54	-35.11	-34.88	1.31	2.90-8.744e+04-1.317e+05-8.836e+04-1.308e+05 6320.26
		323	23.53	-5.36	-34.62	-33.41	-6.57	5.82-1.498e+05-1.619e+05-1.545e+05-1.571e+05 5916.85
283	5	310	32.64	-2.67	-62.24	-51.12	-13.79	23.21-2.013e+05-2.288e+05-2.197e+05-2.103e+051.290e+04
		315	22.30	7.76	-45.08	-39.04	1.73	16.80-1.153e+05-1.676e+05-1.205e+05-1.624e+05-1.566e+04
		321	22.89	9.80	-53.67	-53.15	9.29	5.67-1.217e+05-1.707e+05-1.244e+05-1.681e+051.100e+04
		323	31.52	0.02	-54.54	-52.42	-2.10	10.54-1.954e+05-2.205e+05-2.125e+05-2.035e+051.168e+04
284	3	292	14.89	25.90	-22.66	-22.21	25.45	-4.66-1.876e+04-1.070e+05-6.853e+04-5.724e+04-4.377e+04
		6	7.47	9.40	-113.32	-76.39	-27.53	56.29-3.085e+04-5.376e+04-4.914e+04-3.547e+04 9196.46
		277	18.18	33.10	-1.41	31.51	0.17	-7.22-3.229e+04-1.009e+05 1.824e+04-8.690e+04-4.092e+04
		302	12.53	3.39	-49.93	-26.70	-19.84	26.44-4.724e+04-9.603e+04-4.830e+04-9.497e+04 -7118.44
284	4	292	13.92	22.16	-20.74	-20.07	21.49	-3.31-2.188e+04-1.004e+05-8.375e+04-5.550e+04-4.060e+04
		6	6.08	6.05	-101.23	-68.31	-26.88	49.48-2.927e+04-4.298e+04-4.048e+04-3.178e+04 5300.70
		277	17.00	29.80	-3.47	28.09	-1.77	-7.34-2.810e+04-9.583e+04 1.516e+04-8.290e+04-3.789e+04
		302	11.78	1.14	-44.57	-23.67	-19.76	22.77-4.228e+04-9.023e+04-4.358e+04-8.893e+04 -7803.79
284	5	292	18.41	35.45	-28.60	-28.35	35.20	-3.99-2.106e+04-1.315e+05-8.655e+04-6.550e+04-5.425e+04
		6	11.30	16.36	-146.76	-98.79	-31.62	74.32-3.377e+04-8.139e+04-7.102e+04-4.414e+041.965e+04
		277	22.64	42.46	2.08	40.91	3.63	-7.76-4.497e+04-1.224e+05 2.722e+04-1.047e+05-5.154e+04
		302	15.30	7.86	-64.81	-34.88	-22.07	35.77-6.260e+04-1.171e+05-6.310e+04-1.166e+05 -5238.30
285	3	279	15.70	23.77	-3.21	-3.04	23.60	-2.13-2.037e+04-9.238e+04-9.238e+042.037e+04 478.39
		16	17.39	5.16	-96.87	-24.57	-67.13	46.36-1.170e+04-1.080e+05-8.966e+04 -6645.04 4.313e+04
		293	9.63	22.45	-23.94	21.91	-23.39	-5.02-3.705e+04-7.364e+04-6.936e+04-4.133e+04-1.175e+04
		303	15.59	3.66	-41.58	-11.60	-26.32	21.39-2.798e+04-1.142e+05-1.023e+05-3.993e+042.978e+04
285	4	279	14.83	21.54	-4.73	-4.55	21.37	-2.15-1.779e+04-8.815e+04-8.815e+04 1.779e+04 178.47
		16	15.48	3.11	-86.50	-22.71	-60.68	40.59-1.215e+04-9.528e+04-8.109e+04 -2035.40 3.637e+04
		293	9.29	18.05	-21.63	17.34	-20.91	-5.27-3.465e+04-7.114e+04-6.707e+04-3.872e+04-1.148e+04
		303	14.41	1.54	-36.94	-12.19	-23.22	18.43-2.675e+04-1.058e+05-9.627e+04-3.633e+042.580e+04
285	5	279	19.23	30.20	-0.78	-0.61	30.03	-2.29-2.829e+04-1.110e+05-1.110e+05 2.828e+04 1367.35
		16	23.31	9.38	-125.33	-30.37	-85.58	61.44-1.494e+04-1.449e+05-1.143e+05-1.561e+046.285e+04
		293	11.18	32.73	-30.63	32.32	-30.22	-5.05-4.712e+04-8.525e+04-8.004e+04-5.232e+04-1.309e+04
		303	19.70	7.96	-54.20	-11.68	-34.56	28.89-3.275e+04-1.434e+05-1.241e+05-5.205e+044.199e+04
286	3	331	28.61	2.56	-54.91	-51.55	-0.80	-13.48-1.436e+05-2.146e+05-2.005e+05-1.578e+05-2.835e+04
		15	17.01	5.55	-68.56	-67.80	4.79	7.48-6.828e+04-1.298e+05-1.060e+05-9.207e+04-2.994e+04
		314	24.42	5.81	-39.37	-19.91	-13.65	-22.37-1.328e+05-1.808e+05-1.343e+05-1.792e+05 -8426.64
		330	30.32	-8.88	-38.45	-31.49	-15.84	-12.55-1.704e+05-2.220e+05-1.998e+05-1.926e+05-2.554e+04
286	4	331	26.50	0.45	-47.99	-45.25	-2.29	-11.19-1.365e+05-1.980e+05-1.859e+05-1.486e+05-2.446e+04
		15	15.47	2.67	-61.66	-60.59	1.60	8.24-6.520e+04-1.179e+05-9.513e+04-8.800e+04-2.612e+04
		314	22.79	3.63	-34.35	-16.90	-13.82	-18.93-1.246e+05-1.685e+05-1.253e+05-1.678e+05 -5674.22
		330	28.16	-10.47	-32.83	-27.60	-15.71	-9.47-1.608e+05-2.050e+05-1.854e+05-1.804e+05-2.198e+04
286	5	331	35.91	6.73	-72.84	-67.99	1.88	-19.02-1.716e+05-2.712e+05-2.517e+05-1.911e+05-3.952e+04
		15	21.86	11.42	-87.94	-87.46	10.93	6.90-7.881e+04-1.665e+05-1.384e+05-1.069e+05-4.095e+04
		314	30.37	10.48	-52.51	-27.35	-14.67	-30.85-1.629e+05-2.255e+05-1.669e+05-2.215e+05-1.530e+04
		330	37.85	-6.87	-52.43	-41.64	-17.65	-19.37-2.068e+05-2.793e+05-2.492e+05-2.369e+05-3.576e+04
287	3	322	16.24	0.42	-23.35	-1.47	-21.46	6.43-3.727e+04-1.217e+05-1.080e+05-5.098e+043.114e+04
		316	17.23	2.26	-33.77	-4.80	-26.71	14.30-6.148e+04-1.321e+05-1.272e+05-6.637e+041.793e+04
		313	22.47	-5.38	-30.44	-13.67	-22.15	11.79-9.540e+04-1.718e+05-1.086e+05-1.586e+052.889e+04
		319	23.04	-1.80	-37.06	-8.85	-30.02	14.10-9.105e+04-1.762e+05-1.351e+05-1.322e+054.255e+04
287	4	322	15.25	-1.59	-20.60	-3.16	-19.02	5.24-3.663e+04-1.147e+05-1.038e+05-4.758e+042.711e+04
		316	16.12	0.18	-29.87	-5.84	-23.85	12.02-5.870e+04-1.236e+05-1.203e+05-6.199e+041.425e+04
		313	20.98	-6.70	-26.56	-13.58	-19.67	9.45-9.125e+04-1.603e+05-1.497e+05-1.018e+052.484e+04
		319	21.45	-4.14	-32.33	-9.87	-26.60	11.34-8.974e+04-1.639e+05-1.296e+05-1.241e+053.698e+04
287	5	322	20.03	4.17	-30.60	1.48	-27.92	9.28-4.182e+04-1.491e+05-1.274e+05-6.352e+044.311e+04
		316	21.36	6.32	-44.16	-3.36	-34.48	19.87-7.329e+04-1.635e+05-1.541e+05-8.276e+042.767e+04
		313	27.86	-3.39	-40.48	-15.06	-28.81	17.22-1.126e+05-2.133e+05-1.927e+05-1.332e+054.065e+04
		319	28.73	2.34	-49.23	-7.80	-39.09	20.49-1.022e+05-2.195e+05-1.596e+05-1.621e+055.862e+04
288	3	19	10.09	19.17	-13.12	1.42	4.64	16.07-1.229e+04-6.002e+04-5.921e+04 1.148e+04 7615.88
		320	17.50	-5.76	-17.07	-16.85	-5.97	1.54-3.503e+04-1.299e+05-8.624e+04-7.871e+04-4.730e+04
		322	14.29	4.73	-22.61	-21.94	4.06	4.22-3.658e+04-1.081e+05-7.155e+04-7.311e+04-3.574e+04
		319	26.16	-4.42	-48.55	-47.83	-5.14	-5.59-8.939e+04-1.996e+05-1.748e+05-1.141e+05-4.597e+04
288	4	19	8.83	14.30	-12.01	1.85	0.45	13.14-4.621e+04-5.637e+04-5.600e+04 4248.68 4750.96
		320	16.42	-6.34	-15.37	-15.18	-6.52	1.28-3.469e+04-1.224e+05-8.056e+04-7.655e+04-4.382e+04
		322	13.55	2.15	-20.00	-19.50	1.65	3.32-3.574e+04-1.026e+05-6.613e+04-7.223e+04-3.331e+04
		319	24.15	-6.59	-42.48	-41.90	-7.17	-4.53-8.833e+04-1.846e+05-1.614e+05-1.141e+05-4.116e+04
288	5	19	13.98	30.04	-16.89	0.55	12.60	22.68-3.317e+04-7.142e+04-6.919e+04 3.094e+04 1.509e+04
		320	21.56	-5.06	-21.87	-21.59	-5.34	2.15-3.917e+04-1.590e+05-1.078e+05-9.035e+04-5.927e+04
		322	17.36	9.83	-29.54	-28.56	8.85	6.15-4.122e+04-1.306e+05-9.037e+04-8.148e+04-4.448e+04
		319	33.11	-0.81	-64.07	-63.04	-1.84	-8.00-1.000e+05-2.512e+05-2.205e+05-1.307e+05-6.079e+04
289	3	294	13.25	3.50	-24.86	3.48	-24.84	-0.67-5483.18-9.075e+04-4.821e+04-4.803e+044.264e+04
		304	13.11	0.81	-20.82	0.74	-20.75	-1.21-3.073e+04-9.858e+04-8.536e+04-4.395e+042.688e+04

		316	17.12	0.64	-26.52	-0.40	-25.48	5.20-5.643e+04-1.309e+05-1.062e+05-8.117e+043.509e+04
		322	16.39	0.46	-24.44	0.24	-24.22	-2.33-4.404e+04-1.242e+05-8.422e+04-8.402e+044.007e+04
289	4	294	12.33	1.32	-22.22	1.31	-22.22	-0.45 -6250.77-8.500e+04-4.786e+04-6.339e+043.931e+04
		304	12.37	-1.09	-18.53	-1.17	-18.45	-1.18-2.926e+04-9.306e+04-8.221e+04-4.011e+042.397e+04
		316	16.00	-1.20	-23.33	-2.23	-22.29	4.67-5.421e+04-1.225e+05-1.019e+05-7.477e+043.133e+04
		322	15.39	-1.42	-21.71	-1.61	-21.52	-1.93-4.321e+04-1.169e+05-8.236e+04-7.777e+043.679e+04
289	5	294	16.58	7.84	-32.06	7.81	-32.02	-1.12 -3923.07-1.122e+05-5.268e+04-6.342e+045.386e+04
		304	15.95	4.35	-27.03	4.29	-26.97	-1.35-3.749e+04-1.199e+05-1.001e+05-5.730e+043.523e+04
		316	21.21	4.13	-34.93	2.95	-33.75	6.71-6.648e+04-1.618e+05-1.251e+05-1.032e+054.639e+04
		322	20.24	3.96	-31.79	3.67	-31.50	-3.24-5.013e+04-1.525e+05-9.613e+04-1.065e+055.092e+04
290	3	305	12.39	2.60	-14.52	1.71	-13.63	3.80 -9197.25-8.646e+04-4.335e+04-5.231e+043.837e+04
		335	14.07	-0.81	-19.84	-1.33	-19.31	3.12 -3922.06-9.531e+04-4.596e+04-5.327e+044.555e+04
		19	16.18	11.65	-26.11	-10.46	-4.01	18.60-4.744e+04-1.226e+05-1.087e+05-6.139e+042.923e+04
		308	15.58	-0.67	-25.84	-1.24	-25.27	3.77-2.814e+04-1.145e+05-6.832e+04-7.436e+044.310e+04
290	4	305	11.57	1.18	-13.22	0.22	-12.26	3.60-1.123e+04-8.180e+04-4.464e+04-4.839e+043.524e+04
		335	12.88	-2.93	-17.83	-3.28	-17.48	2.24 -7432.75-8.903e+04-4.750e+04-4.896e+044.079e+04
		19	14.99	11.47	-24.10	-9.80	-2.82	17.44-4.638e+04-1.140e+05-1.026e+05-5.775e+042.528e+04
		308	14.56	-2.02	-23.62	-2.47	-23.16	3.10-3.012e+04-1.081e+05-6.907e+04-6.915e+043.900e+04
290	5	305	15.43	5.59	-18.28	4.69	-17.38	4.55 -5539.35-1.051e+05-4.399e+04-6.662e+044.846e+04
		335	18.08	2.99	-25.36	2.06	-24.43	5.05 2914.43-1.185e+05-4.659e+04-5.896e+044.565e+04
		19	20.03	13.23	-32.19	-12.33	-6.64	22.53-5.256e+04-1.507e+05-1.297e+05-7.363e+044.031e+04
		308	19.35	1.89	-32.32	1.02	-31.45	5.39-2.658e+04-1.395e+05-7.311e+04-9.300e+045.559e+04
291	3	266	16.17	0.26	-22.85	-17.63	-4.96	-9.66-3.148e+04-1.196e+05-1.180e+05-3.308e+041.178e+04
		296	12.95	-1.32	-15.97	-11.78	-5.50	-6.62-1.777e+04-9.371e+04-8.487e+04-2.661e+042.436e+04
		295	13.55	2.09	-28.21	-22.03	-4.09	-12.21 5344.15-8.709e+04-8.499e+04 3245.58 1.377e+04
		267	13.70	-0.58	-14.04	-13.29	-1.33	-3.08 6597.29-8.750e+04-8.703e+04 6130.27 6612.50
291	4	266	15.13	-1.37	-20.53	-16.31	-5.59	-7.94-3.299e+04-1.128e+05-1.107e+05-3.514e+041.293e+04
		296	12.13	-2.81	-14.36	-10.92	-6.25	-5.29-1.858e+04-8.845e+04-7.877e+04-2.825e+042.414e+04
		295	12.51	0.40	-25.63	-20.35	-4.89	-10.47 3297.48-8.131e+04-7.865e+04 631.95 1.478e+04
		267	12.83	-1.83	-12.85	-12.47	-2.22	-2.02 3912.16-8.318e+04-8.237e+04 3102.48 8358.15
291	5	266	20.11	3.35	-29.25	-21.74	-4.16	-13.73-3.097e+04-1.463e+05-1.454e+05-3.183e+04 9947.28
		296	15.96	1.35	-20.41	-14.48	-4.58	-9.69-1.810e+04-1.141e+05-1.061e+05-2.608e+042.650e+04
		295	17.21	5.44	-35.55	-27.12	-2.99	-16.56 1.111e+04-1.081e+05-1.069e+05 9874.90 1.206e+04
		267	17.08	1.87	-17.62	-16.01	0.26	-5.37 1.350e+04-1.060e+05-1.059e+051.343e+04 2807.90
292	3	283	12.48	14.22	-10.10	-9.47	13.59	3.85 1.654e+04-7.310e+04-6.179e+04 5224.04 2.977e+04
		21	22.22	0.39	-67.78	-21.63	-45.76	31.87 4.493e+04-1.191e+05-8.624e+041.207e+04 6.565e+04
		335	7.13	10.75	-6.59	8.54	-4.39	-5.78-2.303e+04-5.431e+04-4.740e+04-2.994e+041.298e+04
		305	15.86	2.55	-37.56	-7.82	-27.19	17.56 3192.71-1.031e+05-6.712e+04-3.282e+045.032e+04
292	4	283	11.94	13.23	-10.01	-9.47	12.69	3.51 1.470e+04-7.066e+04-6.085e+04 4888.62 2.722e+04
		21	19.94	-0.59	-61.54	-18.93	-43.20	27.96 4.185e+04-1.059e+05-7.872e+041.466e+04 5.725e+04
		335	7.02	8.29	-6.47	5.63	-3.81	-5.68-2.434e+04-5.370e+04-4.873e+04-2.931e+041.101e+04
		305	14.49	0.85	-34.14	-8.30	-25.00	15.37 105.52-9.568e+04-6.559e+04-2.998e+044.446e+04
292	5	283	15.03	17.33	-11.13	-10.28	16.49	4.83 2.298e+04-8.604e+04-7.005e+04 6990.51 3.857e+04
		21	29.36	2.37	-85.45	-28.52	-54.56	41.93 5.852e+04-1.578e+05-1.083e+05 9048.76 9.084e+04
		335	8.12	16.55	-7.70	14.70	-5.85	-6.44-2.261e+04-6.125e+04-4.818e+04-3.568e+041.828e+04
		305	20.47	5.99	-47.22	-7.58	-33.65	23.20 1.072e+04-1.295e+05-7.590e+04-4.286e+046.812e+04
293	3	282	10.82	-1.34	-8.08	-1.66	-7.76	1.44 8239.43-6.761e+04-6.511e+04 5734.63 1.355e+04
		281	13.22	1.74	-7.78	-6.74	0.70	2.96 8482.65-8.335e+04-8.332e+04 8451.53 1690.29
		294	14.79	1.80	-25.36	-14.73	-8.82	13.26 -5510.51-1.008e+05-1.002e+05 -6053.77 7173.66
		306	13.79	-2.31	-12.51	-9.47	-5.35	4.67-1.003e+04-9.621e+04-9.317e+04-1.308e+041.591e+04
293	4	282	10.29	-3.10	-7.29	-3.14	-7.25	0.43 6917.86-6.486e+04-6.326e+04 5321.79 1.058e+04
		281	12.55	1.03	-7.84	-7.29	0.48	2.13 7455.28-7.945e+04-7.945e+04 7454.61 -241.33
		294	13.77	0.19	-22.81	-14.31	-8.31	11.10 -6045.90-9.430e+04-9.405e+04 -6289.50 4630.19
		306	12.95	-3.38	-11.46	-9.74	-5.10	3.31-1.115e+04-9.106e+04-8.902e+04-1.320e+041.262e+04
293	5	282	13.09	1.96	-10.45	0.91	-9.40	3.46 1.239e+04-8.031e+04-7.518e+04 7260.25 2.120e+04
		281	16.07	3.48	-8.68	-6.36	1.17	4.78 1.198e+04-1.004e+05-1.000e+051.165e+04 6113.82
		294	18.50	5.01	-32.51	-16.91	-10.60	18.49 -4472.51-1.249e+05-1.232e+05 -6152.87 1.413e+04
		306	17.00	-0.24	-15.92	-9.86	-6.30	7.64 -8648.23-1.170e+05-1.110e+05-1.466e+042.481e+04
294	3	318	16.67	1.82	-29.17	-28.25	0.89	5.27-6.400e+04-1.281e+05-7.265e+04-1.195e+052.191e+04
		300	14.65	4.25	-25.75	-20.49	-1.00	11.40-2.866e+04-1.086e+05-3.581e+04-1.014e+052.281e+04
		297	14.24	-1.81	-19.08	-18.92	-1.97	-1.66-2.936e+04-1.061e+05-4.288e+04-9.258e+042.923e+04
		317	17.53	0.53	-27.00	-26.98	0.52	0.70-6.688e+04-1.347e+05-8.744e+04-1.141e+053.116e+04
294	4	318	15.66	-0.46	-25.52	-24.72	-1.26	4.40-5.995e+04-1.203e+05-6.871e+04-1.135e+051.917e+04
		300	13.79	2.02	-22.85	-17.90	-2.94	9.93-2.672e+04-1.021e+05-3.249e+04-9.631e+042.005e+04
		297	13.43	-3.61	-16.87	-16.66	-3.83	-1.67-2.774e+04-1.001e+05-3.909e+04-8.872e+042.631e+04
		317	16.46	-1.60	-23.58	-23.56	-1.62	0.58-6.347e+04-1.264e+05-8.066e+04-1.092e+052.804e+04
294	5	318	20.50	6.14	-38.67	-37.42	4.88	7.39-7.907e+04-1.575e+05-9.293e+04-1.437e+052.992e+04
		300	17.96	8.81	-33.66	-27.24	2.39	15.21-3.582e+04-1.333e+05-4.706e+04-1.221e+053.115e+04
		297	17.39	1.31	-24.99	-24.87	1.19	-1.79-3.609e+04-1.296e+05-5.595e+04-1.097e+053.824e+04
		317	21.58	4.48	-35.89	-35.86	4.45	1.05-8.042e+04-1.658e+05-1.109e+05-1.353e+054.089e+04
295	3	325	14.86	0.29	-17.09	-16.43	-0.36	3.30-6.847e+04-1.135e+05-6.871e+04-1.133e+05 -3274.78
		302	13.92	0.10	-23.08	-19.70	-3.28	8.18-4.352e+04-1.065e+05-4.359e+04-1.064e+05 2001.23
		301	14.16	0.80	-20.23	-16.76	-2.67	-7.81-3.868e+04-1.075e+05-3.878e+04-1.074e+05 2635.01
		315	17.65	4.06	-34.61	-34.56	4.01	1.39-9.306e+04-1.320e+05-9.375e+04-1.313e+05 5144.70
295	4	325	13.98	-1.84	-14.67	-13.91	-2.59	3.02-6.320e+04-1.069e+05-6.341e+04-1.306e+05 -3007.60
		302	13.18	-1.62	-20.65	-17.10	-5.17	7.41-3.961e+04-1.006e+05-3.968e+04-1.005e+05 2039.04
		301	13.41	-1.28	-17.85	-14.52	-4.60	-6.63-3.513e+04-1.016e+05-3.525e+04-1.015e+05 2811.85

		315	16.57	1.48	-30.15	-30.06	1.38	1.69-8.527e+04-1.245e+05-8.585e+04-1.239e+05	4760.15
295	5	325	18.08	4.24	-23.32	-22.69	3.61	4.12-8.699e+04-1.375e+05-8.736e+04-1.372e+05	-4306.70
		302	16.83	3.41	-30.03	-26.39	-0.23	10.41-5.705e+04-1.292e+05-5.713e+04-1.291e+05	2417.87
		301	17.13	4.72	-26.72	-22.51	0.51	-10.72-5.080e+04-1.307e+05-5.086e+04-1.306e+05	2097.47
		315	21.67	9.14	-46.19	-46.17	9.12	0.96-1.193e+05-1.603e+05-1.202e+05-1.594e+05	5985.18
296	3	15	12.79	13.17	-33.99	4.94	-25.76	17.90-7.003e+04-9.451e+04-9.207e+04-7.247e+04	7330.73
		312	18.64	2.93	-30.45	-18.67	-8.85	15.95-6.507e+04-1.433e+05-1.249e+05-8.347e+04-3.317e+04	
		311	16.45	3.46	-34.48	-27.60	-3.42	14.62-7.376e+04-1.259e+05-9.377e+04-1.059e+05-2.536e+04	
		314	25.53	-0.25	-44.93	-39.46	-5.72	14.65-1.273e+05-1.923e+05-1.849e+05-1.347e+05-2.068e+04	
296	4	15	12.00	9.15	-30.05	3.48	-24.39	13.78-6.740e+04-8.800e+04-8.705e+04-6.834e+04	4302.27
		312	17.49	0.81	-26.67	-16.93	-8.93	13.15-6.066e+04-1.343e+05-1.156e+05-7.939e+04-3.208e+04	
		311	15.52	0.72	-30.10	-24.64	-4.74	11.77-6.749e+04-1.190e+05-8.618e+04-1.003e+05-2.476e+04	
		314	23.73	-2.21	-38.99	-34.69	-6.51	11.81-1.195e+05-1.785e+05-1.703e+05-1.277e+05-2.044e+04	
296	5	15	15.59	21.78	-44.66	7.87	-30.75	27.03-7.909e+04-1.170e+05-1.095e+05-8.650e+04-1.503e+04	
		312	23.01	7.07	-40.30	-23.69	-9.54	22.60-8.112e+04-1.769e+05-1.578e+05-1.002e+05-3.829e+04	
		311	20.04	8.72	-45.86	-35.76	-1.37	21.19-9.476e+04-1.527e+05-1.192e+05-1.283e+05-2.862e+04	
		314	31.99	3.33	-60.09	-51.91	-4.85	21.25-1.558e+05-2.417e+05-2.349e+05-1.626e+05-2.324e+04	
297	3	311	16.53	4.19	-31.82	-30.65	3.02	-6.38-7.716e+04-1.260e+05-8.012e+04-1.230e+05-1.164e+04	
		292	13.52	4.85	-28.93	-26.71	2.62	-8.38-3.299e+04-1.019e+05-3.922e+04-9.571e+04-1.977e+04	
		302	12.68	6.12	-26.95	-26.94	6.11	-0.63-4.823e+04-9.741e+04-4.991e+04-9.574e+04	8915.20
		325	15.20	-1.93	-17.52	-15.87	-3.58	-4.80-7.000e+04-1.160e+05-7.009e+04-1.159e+05	1984.79
297	4	311	15.53	1.61	-27.76	-26.62	0.46	-5.68-7.125e+04-1.185e+05-7.348e+04-1.163e+05-1.003e+04	
		292	12.75	2.30	-25.58	-23.41	0.13	-7.47-3.004e+04-9.585e+04-3.534e+04-9.055e+04-1.791e+04	
		302	11.98	3.30	-23.63	-23.63	3.30	-0.13-4.377e+04-9.205e+04-4.548e+04-9.035e+04	8909.24
		325	14.27	-3.87	-14.95	-13.45	-5.36	-3.79-6.473e+04-1.090e+05-6.487e+04-1.088e+05	2495.45
297	5	311	20.27	9.30	-42.39	-41.02	7.93	-8.29-9.794e+04-1.539e+05-1.029e+05-1.489e+05-1.595e+04	
		292	16.46	9.97	-37.98	-35.37	7.36	-10.89-4.297e+04-1.247e+05-5.225e+04-1.154e+05-2.594e+04	
		302	15.31	11.82	-35.70	-35.65	11.77	-1.58-6.348e+04-1.175e+05-6.534e+04-1.156e+05	9856.63
		325	18.54	1.44	-24.03	-21.87	-0.73	-7.11-8.874e+04-1.410e+05-8.876e+04-1.410e+05	886.46
298	3	329	10.51	16.21	-20.25	-19.75	15.71	-4.22-4.983e+04-7.973e+04-4.998e+04-7.958e+04	2084.67
		4	18.93	13.67	-93.17	-68.08	-11.42	45.28-1.179e+04-1.180e+05-2.105e+04-8.515e+04-5.642e+04	
		273	15.63	19.97	-1.26	-19.34	-0.63	-3.60-1.964e+04-9.257e+04-1.848e+04-9.141e+04-1.136e+04	
		300	16.75	4.34	-44.58	-33.60	-6.64	20.41-2.552e+04-1.214e+05-4.464e+04-1.022e+05-3.830e+04	
298	4	329	10.09	12.08	-17.74	-17.18	11.52	-4.07-4.621e+04-7.684e+04-4.630e+04-7.675e+04	1656.18
		4	16.85	10.85	-83.16	-61.02	-11.29	39.89-1.200e+04-1.043e+05-1.462e+04-7.764e+04-4.885e+04	
		273	14.78	17.95	-2.99	-17.45	-2.50	-3.17-1.750e+04-8.818e+04-1.641e+04-8.709e+04-1.066e+04	
		300	15.47	2.25	-39.76	-29.62	-7.89	17.97-2.381e+04-1.122e+05-3.969e+04-9.636e+04-3.356e+04	
298	5	329	12.43	25.29	-26.86	-26.39	24.83	-4.92-6.390e+04-9.299e+04-6.427e+04-9.261e+04	3271.32
		4	25.37	20.12	-120.65	-87.73	-12.79	59.58-1.541e+04-1.581e+05-3.562e+04-1.071e+05-7.907e+04	
		273	19.10	25.69	1.68	24.71	2.65	-4.74-2.666e+04-1.115e+05-2.520e+04-1.100e+05-1.414e+04	
		300	21.19	8.62	-57.85	-44.16	-5.06	26.88-3.127e+04-1.532e+05-6.015e+04-1.243e+05-1.83e+04	
299	3	152	15.44	11.47	-28.88	-3.13	-14.29	19.39-4.346e+04-1.165e+05-6.705e+04-9.288e+04-3.415e+04	
		287	20.76	4.33	-35.39	-16.51	-14.55	19.83-7.978e+04-1.586e+05-1.285e+05-1.099e+05-3.831e+04	
		112	45.31	16.60	-56.81	-24.01	-16.20	36.50-8.542e+04-3.338e+05-1.525e+05-2.668e+05-1.103e+05	
		17	33.30	21.89	-45.65	-9.12	-14.65	33.65-3.015e+04-2.342e+05-5.684e+04-2.075e+05-6.880e+04	
299	4	152	14.93	7.34	-25.49	-4.26	-13.88	15.69-5.041e+04-1.138e+05-7.030e+04-9.388e+04-2.940e+04	
		287	19.75	1.37	-31.29	-15.90	-14.02	16.30-8.189e+04-1.508e+05-1.246e+05-1.082e+05-3.348e+04	
		112	42.64	11.10	-48.88	-21.50	-16.27	29.88-8.758e+04-3.162e+05-1.462e+05-2.576e+05-9.981e+04	
		17	31.96	15.29	-39.61	-10.53	-13.79	27.40-3.860e+04-2.286e+05-5.978e+04-2.074e+05-5.979e+04	
299	5	152	18.25	20.57	-37.40	-0.76	-16.07	27.96-3.131e+04-1.328e+05-6.461e+04-9.949e+04-7.659e+04	
		287	24.97	10.31	-46.46	-19.24	-16.91	28.36-8.116e+04-1.899e+05-1.480e+05-1.231e+05-5.295e+04	
		112	55.12	28.50	-76.36	-30.69	-17.17	51.99-8.703e+04-4.007e+05-1.796e+05-3.081e+05-1.430e+05	
		17	39.17	36.18	-61.74	-7.96	-17.60	48.72-1.014e+04-2.639e+05-5.303e+04-2.210e+05-5.099e+04	
300	3	313	25.02	-4.71	-48.38	-35.63	-17.46	-19.85-8.537e+04-1.907e+05-1.258e+05-1.201e+05-5.125e+04	
		316	14.28	12.34	-8.03	-0.70	5.01	9.78-5.427e+04-1.097e+05-5.619e+04-1.078e+05-1.013e+04	
		15	29.22	6.58	-99.23	-67.43	-25.22	-48.51-6.073e+04-2.154e+05-1.019e+05-1.742e+05-6.837e+04	
		331	27.75	8.58	-56.57	-53.53	5.54	-13.75-1.116e+05-2.118e+05-1.943e+05-1.291e+05-3.799e+04	
300	4	313	23.07	-5.72	-42.61	-31.23	-17.11	-17.04-8.170e+04-1.761e+05-1.161e+05-1.417e+05-4.545e+04	
		316	13.81	9.99	-7.72	-0.09	2.36	8.77-5.177e+04-1.061e+05-5.336e+04-1.045e+05	-9142.84
		15	26.15	4.95	-87.92	-60.17	-22.80	-42.50-5.676e+04-1.934e+05-9.079e+04-1.594e+05-5.911e+04	
		331	25.67	4.81	-49.55	-47.16	2.42	-11.13-1.075e+05-1.958e+05-1.801e+05-1.232e+05-3.375e+04	
300	5	313	31.66	-3.19	-63.50	-47.08	-19.61	-26.84-1.001e+05-2.406e+05-1.583e+05-1.824e+05-6.919e+04	
		316	16.70	18.03	-9.68	-1.95	10.30	12.43-6.523e+04-1.281e+05-6.797e+04-1.254e+05-1.283e+04	
		15	38.60	10.31	-129.17	-87.13	-31.73	-64.01-7.220e+04-2.823e+05-1.341e+05-2.204e+05-9.578e+04	
		331	35.03	16.18	-74.83	-70.27	11.62	-19.86-1.294e+05-2.672e+05-2.441e+05-1.525e+05-5.145e+04	
301	3	335	16.47	-0.42	-29.36	-22.05	-7.73	12.57-3925.23-1.110e+05-1.098e+05-5038.19-1.086e+04	
		306	12.59	-0.15	-9.96	-9.95	-0.16	-0.26-6618.95-8.671e+04-8.330e+04-1.003e+05-1.617e+04	
		320	15.84	-4.08	-20.77	-11.21	-13.64	8.26-2.639e+04-1.161e+05-1.158e+05-2.671e+04	-5374.39
		19	8.21	16.41	-7.75	0.95	7.71	-11.60-3.285e+04-6.310e+04-6.263e+04-3.333e+04	-3757.67
301	4	335	15.01	-2.08	-26.40	-20.30	-8.18	10.54-7199.62-1.028e+05-1.023e+05-7764.62-7328.77	
		306	11.82	-0.85	-9.56	-9.38	-1.03	-1.24-8075.69-8.224e+04-7.820e+04-1.211e+04-1.682e+04	
		320	14.82	-5.33	-18.87	-10.47	-13.72	6.57-2.722e+04-1.094e+05-1.088e+05-2.780e+04	-6892.14
		19	8.04	15.76	-9.10	-0.26	6.93	-11.90-3.364e+04-6.168e+04-6.103e+04-3.428e+04	-4198.55
301	5	335	21.31	2.64	-37.38	-27.16	-7.57	17.45-2479.62-1.398e+05-1.368e+05-537.18-2.050e+04	
		306	15.45	1.61	-12.14	-11.96	1.43	1.57-4121.49-1.046e+05-1.021e+05-6664.25-1.578e+04	
		320	19.69	-1.99	-26.35	-13.66	-14.68	12.17-2.682e+04-1.423e+05-1.423e+05-2.684e+04	-1707.21
		19	9.02	18.91	-5.97	3.03	9.91	-11.95-3.248e+04-6.938e+04-6.919e+04-3.266e+04	-2617.17

302	3	323	24.54	-8.56	-52.25	-51.83	-8.99	-4.26	-1.564e+05	-1.680e+05	-1.678e+05	-1.566e+05	1508.73	
		321	19.52	12.09	-18.09	-6.68	0.68	14.63	-6.542e+04	-1.498e+05	-6.727e+04	-1.479e+05	1.236e+04	
		8	17.97	16.06	-93.90	-83.65	5.81	-31.98	-8.141e+04	-1.346e+05	-1.332e+05	-8.274e+04	-8286.67	
		264	35.81	3.84	-58.79	-54.84	-0.12	15.24	-1.772e+05	-2.695e+05	-2.634e+05	-1.833e+05	2.291e+04	
302	4	323	22.71	-9.84	-45.85	-45.22	-10.46	-4.71	-1.471e+05	-1.535e+05	-1.535e+05	-1.471e+05	682.47	
		321	18.40	9.58	-16.14	-4.96	-1.60	12.75	-6.167e+04	-1.411e+05	-6.303e+04	-1.397e+05	1.030e+04	
		8	16.06	12.00	-83.79	-73.91	2.12	-29.13	-7.791e+04	-1.194e+05	-1.183e+05	-7.902e+04	-6692.40	
		264	33.14	1.79	-51.11	-47.51	-1.81	13.32	-1.671e+05	-2.488e+05	-2.438e+05	-1.722e+05	1.971e+04	
302	5	323	30.76	-6.99	-69.15	-68.91	-7.23	-3.88	-1.907e+05	-2.145e+05	-2.142e+05	-1.910e+05	2998.33	
		321	23.93	18.13	-23.80	-10.53	4.85	19.50	-7.953e+04	-1.836e+05	-8.289e+04	-1.802e+05	1.840e+04	
		8	23.78	24.97	-121.53	-109.46	12.91	-40.27	-9.347e+04	-1.791e+05	-1.770e+05	-9.555e+04	-1.318e+04	
		264	45.03	8.04	-78.52	-73.50	3.02	20.23	-2.151e+05	-3.404e+05	-3.316e+05	-2.238e+05	1.94e+04	
303	3	3	14.61	63.02	-0.21	60.80	2.01	-11.62	6.771e+04	-4.148e+04	6.525e+04	-3.903e+04	-1.618e+04	
		128	7.52	-6.74	-17.39	-10.91	-13.22	-5.20	-5901.79	-5.259e+04	-6885.34	-5.161e+04	6704.82	
		250	8.84	0.06	-28.57	-16.99	-11.52	14.05	-1.713e+04	-6.494e+04	-2.374e+04	-5.834e+04	1.650e+04	
303	4	3	13.36	57.21	-1.57	55.57	0.07	-9.69	6.053e+04	-3.955e+04	5.834e+04	-3.735e+04	-1.465e+04	
		128	7.13	-6.41	-17.40	-10.28	-13.53	-5.25	-5537.02	-4.982e+04	-6364.16	-4.899e+04	5995.41	
		250	8.27	-1.26	-26.29	-15.16	-12.39	12.44	-1.616e+04	-6.075e+04	-2.123e+04	-5.569e+04	1.415e+04	
303	5	3	18.77	79.81	2.16	76.26	5.71	-16.22	9.218e+04	-4.706e+04	8.889e+04	-4.377e+04	-2.115e+04	
		128	8.91	-7.92	-19.20	-13.15	-13.97	-5.63	-7628.37	-6.267e+04	-9195.97	-6.110e+04	9155.45	
		250	10.86	2.61	-35.64	-21.96	-11.07	18.34	-2.085e+04	-7.965e+04	-3.210e+04	-6.840e+04	2.313e+04	
304	3	326	13.32	8.91	2.81	8.16	3.56	-2.00	1.133e+04	-8.257e+04	8813.53	-8.004e+04	1.518e+04	
		129	10.76	19.66	0.80	0.93	19.53	-1.56	995.43	-7.061e+04	-1381.34	-6.823e+04	1.283e+04	
		256	10.75	16.20	-9.99	-6.19	12.39	-9.23	-7284.32	-7.435e+04	-1.232e+04	-6.931e+04	1.767e+04	
304	4	326	12.60	7.62	0.84	7.33	1.13	-1.38	1.030e+04	-7.832e+04	7799.34	-7.582e+04	1.469e+04	
		129	10.25	15.83	0.69	0.76	15.76	-1.03	877.92	-6.740e+04	-1385.09	-6.513e+04	1.222e+04	
		256	10.29	12.23	-8.98	-5.72	8.97	-7.65	-6351.64	-7.106e+04	-1.128e+04	-6.612e+04	1.717e+04	
304	5	326	16.18	12.89	5.87	10.51	8.25	-3.32	1.494e+04	-9.952e+04	1.212e+04	-9.671e+04	1.773e+04	
		129	12.93	28.54	1.07	1.33	28.28	-2.66	1412.94	-8.456e+04	-1426.74	-8.172e+04	1.536e+04	
		256	12.67	24.95	-12.86	-7.68	19.77	-13.00	-1.014e+04	-8.810e+04	-1.588e+04	-8.236e+04	2.036e+04	
305	3	11	32.25	19.84	-46.57	-44.24	17.51	-12.22	-2.501e+04	-2.250e+05	-1.689e+05	-8.109e+04	-8.983e+04	
		77	44.84	18.00	-57.20	-56.65	17.44	-6.44	-7.998e+04	-3.290e+05	-2.926e+05	-1.164e+05	-8.796e+04	
		171	21.01	7.05	-31.91	-29.20	4.33	-9.92	-7.277e+04	-1.604e+05	-1.581e+05	-7.504e+04	-1.392e+04	
305	4	11	30.88	13.19	-40.58	-38.91	11.53	-9.32	-3.311e+04	-2.192e+05	-1.626e+05	-8.980e+04	-8.566e+04	
		77	42.20	12.53	-49.12	-48.58	11.99	-5.75	-8.277e+04	-3.119e+05	-2.753e+05	-1.194e+05	-8.398e+04	
		171	20.13	3.66	-28.25	-25.78	1.19	-8.52	-7.657e+04	-1.540e+05	-1.520e+05	-7.864e+04	-1.250e+04	
305	5	11	38.04	33.96	-62.74	-59.10	30.32	-18.39	-6293.81	-2.545e+05	-1.951e+05	-6.565e+04	-1.059e+05	
		77	54.51	29.98	-77.09	-76.45	29.35	-8.23	-7.934e+04	-3.940e+05	-3.552e+05	-1.181e+05	-1.034e+05	
		171	25.05	14.32	-41.50	-38.00	10.82	-13.55	-6.962e+04	-1.891e+05	-1.860e+05	-7.273e+04	-1.903e+04	
306	3	84	24.25	28.88	-41.30	-41.04	28.62	-4.23	6491.31	-1.565e+05	-1.513e+05	1300.35	-2.862e+04	
		11	27.64	28.78	-49.98	-49.51	28.31	6.07	-5.006e+04	-2.023e+05	-1.992e+05	-5.317e+04	-2.156e+04	
		172	11.73	12.24	-23.31	-23.28	12.21	0.91	-2.165e+04	-8.586e+04	-8.586e+04	-2.165e+04	-253.25	
306	4	84	22.88	20.80	-35.83	-35.56	20.53	-3.87	-1.149e+04	-1.565e+05	-1.491e+05	-1.893e+04	-3.200e+04	
		11	26.52	22.73	-43.29	-43.03	22.47	4.16	-5.798e+04	-1.970e+05	-1.921e+05	-6.294e+04	-2.580e+04	
		172	11.53	7.57	-21.17	-21.15	7.55	0.70	-3.226e+04	-8.698e+04	-8.697e+04	-3.227e+04	812.81	
306	5	84	30.58	46.59	-55.12	-54.85	46.32	-5.28	5.142e+04	-1.703e+05	-1.680e+05	-9.155e+04	-2.230e+04	
		11	32.88	43.44	-66.52	-65.66	42.57	9.73	-3.233e+04	-2.309e+05	-2.301e+05	-3.313e+04	-1.260e+04	
		172	13.79	22.19	-29.36	-29.31	22.14	1.53	76.07	-9.055e+04	-9.045e+04	-25.91	-3038.30	
307	3	177	11.66	30.01	-18.76	-18.76	21.07	-9.82	18.87	7.507e+04	-2630.43	6.386e+04	8581.13	2.730e+04
		178	11.06	28.24	-23.03	-23.03	12.44	-7.22	23.67	4.961e+04	-3.332e+04	2.335e+04	-7065.19	3.857e+04
		98	23.97	41.27	-17.28	-17.28	33.66	-9.68	19.69	1.453e+05	-2.320e+04	1.107e+05	1.139e+04	6.805e+04
307	4	177	9.45	22.08	-16.91	-16.91	14.94	-9.77	15.08	5.401e+04	-1.351e+04	4.402e+04	-3516.46	2.397e+04
		178	9.32	21.41	-21.07	-21.07	8.56	-8.22	19.51	2.830e+04	-4.160e+04	7691.57	-2.099e+04	3.187e+04
		98	18.50	31.35	-15.74	-15.74	25.51	-9.90	15.52	1.022e+05	-3.290e+04	7.673e+04	-7453.08	5.282e+04
307	5	177	18.17	47.91	-23.58	-23.58	34.81	-10.49	27.65	1.288e+05	2.216e+04	1.141e+05	3.693e+04	3.685e+04
		178	17.16	43.92	-28.49	-28.49	21.20	-5.78	33.60	1.031e+05	-1.670e+04	6.149e+04	2.491e+04	5.703e+04
		98	39.30	63.81	-21.37	-21.37	52.27	-9.83	29.14	2.582e+05	-2684.59	1.989e+05	5.663e+04	1.093e+05
308	3	287	20.14	5.51	-38.45	-38.45	5.03	-37.98	4.54	-7.533e+04	-1.537e+05	-7.815e+04	-1.509e+05	1.459e+04
		319	22.41	-5.76	-34.37	-34.37	-6.60	-33.53	4.82	-9.910e+04	-1.708e+05	-1.230e+05	-1.470e+05	0.53.380e+04
		112	49.39	14.53	-58.79	-58.79	10.55	-54.81	16.62	-1.027e+05	-3.666e+05	-1.033e+05	-3.660e+05	-1.177e+04
308	4	287	19.12	2.43	-34.14	-34.14	2.05	-33.75	3.74	-7.744e+04	-1.460e+05	-7.982e+04	-1.436e+05	1.255e+04
		319	20.92	-7.22	-30.24	-30.24	-7.78	-29.68	3.53	-9.537e+04	-1.592e+05	-1.178e+05	-3.688e+05	0.53.045e+04
		112	46.35	9.66	-50.61	-50.61	6.50	-47.45	13.42	-1.039e+05	-3.460e+05	-1.048e+05	-3.451e+05	-1.454e+04
308	5	287	24.31	11.84	-49.87	-49.87	11.15	-49.18	6.50	-7.643e+04	-1.844e+05	-8.041e+04	-1.804e+05	2.036e+04
		319	27.72	-3.56	-45.18	-45.18	-5.03	-43.72	7.67	-1.164e+05	-2.117e+05	-1.450e+05	-1.831e+05	0.54.371e+04
		112	60.35	25.03	-79.31	-79.31	19.11	-73.39	24.13	-1.075e+05	-4.426e+05	-1.076e+05	-4.425e+05	-5900.99
309	3	179	10.01	16.62	-21.23	-21.23	14.86	-19.47	7.97	1.395e+04	-5.760e+04	1.075e+04	-5.440e+04	1.479e+04
		152	16.25	10.34	-31.54	-31.54	3.45	-24.65	15.53	-4.960e+04	-1.232e+05	-5.560e+04	-1.172e+05	0.52.014e+04
		105	24.02	32.06	-40.55	-40.55	28.41	-36.90	15.86	9274.30	-1.534e+05	6823.24	-1.510e+05	1.982e+04
309	4	179	9.42	11.35	-19.33	-19.33	9.96	-17.93	6.40	946.61	-6.146e+04	-2016.90	-5.850e+04	1.327e+04
		152	15.77	6.67	-28.08	-28.08	1.17	-22.58	12.68	-5.490e+04	-1.203e+05	-5.969e+04	-1.155e+05	1.704e+04
		105	22.53	23.87	-35.27	-35.27	21.07	-32.47	12.56	-1.111e+04	-1.540e+05	-1.192e+04	-1.532e+05	1.074e+04
309	5	179	13.05	28.23	-26.48	-26.48	25.63	-23.88	11.64	4.460e+04	-5.393e+04	4.065e+04	-4.998e+04	1.932e+04
		152	18.84	18.37	-40.69	-40.69	8.24	-30.56	22.26	-4.148e+04	-1.397e+05	-5.055e+04	-1.306e+05	2.844e+04
		105	30.76	50.48	-53.85	-53.85	44.93	-48.30	23.42	5.982e+04	-1.655e+05	5.130e+04	-1.570e+05	4.298e+04

Elem. Von Mises N max N min N 1 N 2 N 1-2 M max M min M 1 M 2 M 1-2

98.23	208.23	-245.55	-164.14	-115.10	-115.15	-2.033e+06	-1.525e+06	-1.180e+06	-8.729e+05
			130.39	85.70	115.66	1.449e+06	9.532e+05	6.203e+05	8.721e+05

# VERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

## LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata*.

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok e NV**, il rapporto  $x/d$ , la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per  $q$  superiore a 2 e i valori di involuppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento*, riportando in tabella il rapporto  $x/d$ , la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione di tipo "*Singolo Elemento ...*" è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento

Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO
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Per gli elementi con progettazione di tipo “*Parete Sismica*” e “*Parete Debolmente Armata*” è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Sia per le verifiche degli elementi con progettazione di tipo “*Singolo Elemento ...*” e “*Parete ...*” è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento <b>ok</b> o <b>NV</b>
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e/o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e/o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali
Mx Mx Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento <b>ok</b> o <b>NV</b>
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo
Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria



V sec-	Verifica dell'armatura nella direzione secondaria
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Per le verifiche degli elementi con progettazione “*Parete Sismica o Parete Debolmente Armata*”, oltre alla tabella con le verifiche per gli elementi con progettazione “*Singolo Elemento ...*”, è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)
Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e attinge il massimo valore
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore

Quota	Ascissa verticale di riferimento
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature

Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato $Ned/(bw f_{yd})$

Per la verifica a *Punzonamento* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento <b>ok</b> o <b>NV</b>
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1
V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armature in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armature in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

## PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

“Sia per CD“A” sia per CD“B” il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- [...];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD“A” e 1,10 in CD“B”;

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO\_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO\_SAP (per travi e platee) o da PRO\_CAD Plinti (per plinti e pali di fondazione) incrementando la componente sismica delle combinazioni di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche di pali, plinti, plinti su pali, travi e platee vengono effettuate dal modulo geotecnico incrementando automaticamente la componente sismica delle azioni di un fattore 1.1 in CDB e 1.3 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	340.00	6	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
11	ok	0.05	1.0	2.92e-03	99.7	51.9	57.4	45.2	-115.4	-56.7	-78.3-9.778e+05	-4.054e+05	-3.193e+05	
12	ok	0.05	1.0	3.16e-03	109.2	34.0	43.2	34.0	-184.3	-25.6	-18.8-1.341e+06	-4.685e+05	4.838e+04	
13	ok	0.04	1.0	2.32e-03	89.6	34.0	62.2	34.0	-124.1	-19.4	35.0-8.764e+05	-5.201e+05	2.762e+05	
14	ok	0.05	1.0	3.17e-03	108.2	34.0	43.5	34.0	-184.6	-24.7	18.2-1.333e+06	-4.626e+05	-4.501e+04	
17	ok	0.04	1.0	2.94e-03	98.7	51.9	56.9	44.7	-116.5	-56.6	79.1-9.704e+05	-4.003e+05	3.164e+05	
26	ok	0.03	1.0	1.80e-03	46.1	69.8	46.1	34.0	132.2	-7.2	11.5 8.593e+05	7.915e+04	-6859.4	
31	ok	0.02	1.0	4.11e-04	34.0	47.9	34.0	42.9	74.6	-18.0	22.8 4.838e+05	4.101e+04	2.355e+05	
32	ok	0.03	1.0	1.77e-03	46.1	70.9	46.1	34.0	129.5	-8.0	-11.2 8.726e+05	7.027e+04	7995.7	
39	ok	0.02	0.8	3.61e-04	34.0	34.0	34.0	34.0	-17.8	-20.1	0.9-3.298e+05	-2.806e+05	-1.743e+04	
40	ok	0.02	0.7	3.53e-04	34.0	34.0	34.0	34.0	-18.8	-18.7	1.2-3.201e+05	-2.925e+05	-1.822e+04	
41	ok	0.02	0.7	3.30e-04	34.0	34.0	34.0	34.0	-18.0	-18.4	0.4-3.166e+05	-2.953e+05	-8592.9	
42	ok	0.02	0.7	3.53e-04	34.0	34.0	34.0	34.0	-18.1	-19.5	0.3-3.271e+05	-2.842e+05	-8560.0	
43	ok	0.02	0.7	3.27e-04	34.0	34.0	34.0	34.0	-17.7	-17.8	1.73e-02-3.103e+05	-3.074e+05	69.3	
44	ok	0.02	0.7	3.48e-04	34.0	34.0	34.0	34.0	-17.8	-18.0	2.21e-02-3.103e+05	-3.049e+05	-15.4	
45	ok	0.02	0.7	3.30e-04	34.0	34.0	34.0	34.0	-18.0	-18.4	-0.4-3.166e+05	-2.953e+05	8634.5	
46	ok	0.02	0.7	3.53e-04	34.0	34.0	34.0	34.0	-18.1	-19.5	-0.3-3.272e+05	-2.841e+05	8634.7	
47	ok	0.02	0.7	3.53e-04	34.0	34.0	34.0	34.0	-18.8	-18.7	-1.2-3.202e+05	-2.925e+05	1.824e+04	
48	ok	0.02	0.8	3.61e-04	34.0	34.0	34.0	34.0	-17.8	-20.1	-0.9-3.299e+05	-2.804e+05	1.746e+04	
49	ok	0.02	0.7	3.41e-04	34.0	34.0	34.0	34.0	-19.0	-17.4	0.8-3.098e+05	-3.028e+05	-1.991e+04	
50	ok	0.02	0.7	3.17e-04	34.0	34.0	34.0	34.0	-17.7	-17.4	0.3-3.059e+05	-3.046e+05	-9109.7	
51	ok	0.02	0.7	3.12e-04	34.0	34.0	34.0	34.0	-17.7	-17.6	1.91e-02-3.093e+05	-3.090e+05	55.1	
52	ok	0.02	0.7	3.17e-04	34.0	34.0	34.0	34.0	-17.7	-17.4	-0.3-3.059e+05	-3.046e+05	9141.5	
53	ok	0.02	0.7	3.42e-04	34.0	34.0	34.0	34.0	-19.0	-17.4	-0.8-3.098e+05	-3.028e+05	1.993e+04	
54	ok	0.02	0.7	3.30e-04	34.0	34.0	34.0	34.0	-18.6	-16.4	0.3-2.962e+05	-3.130e+05	-2.252e+04	
55	ok	0.02	0.7	3.12e-04	34.0	34.0	34.0	34.0	-17.6	-17.4	7.18e-02-3.064e+05	-3.092e+05	-1765.0	
56	ok	0.02	0.7	3.11e-04	34.0	34.0	34.0	34.0	-17.6	-17.4	2.20e-02-3.068e+05	-3.099e+05	137.6	
57	ok	0.02	0.7	3.12e-04	34.0	34.0	34.0	34.0	-17.7	-17.4	-3.18e-02-3.065e+05	-3.093e+05	1899.8	
58	ok	0.02	0.7	3.30e-04	34.0	34.0	34.0	34.0	-18.6	-16.3	-0.3-2.962e+05	-3.131e+05	2.254e+04	
59	ok	0.02	0.8	3.14e-04	34.0	34.0	34.0	34.0	-17.8	-15.3	2.99e-02-2.775e+05	-3.242e+05	-2.527e+04	
60	ok	0.02	0.7	3.11e-04	34.0	34.0	34.0	34.0	-17.5	-17.2	7.26e-02-3.022e+05	-3.097e+05	-2115.9	
61	ok	0.02	0.7	3.10e-04	34.0	34.0	34.0	34.0	-17.6	-17.2	2.36e-02-3.030e+05	-3.102e+05	150.0	
62	ok	0.02	0.7	3.10e-04	34.0	34.0	34.0	34.0	-17.6	-17.2	-2.80e-02-3.023e+05	-3.097e+05	2356.9	
63	ok	0.02	0.8	3.15e-04	34.0	34.0	34.0	34.0	-17.8	-15.3	-3.53e-02-2.775e+05	-3.243e+05	2.529e+04	
64	ok	0.02	0.8	3.10e-04	34.0	34.0	34.0	34.0	-17.5	-17.0	0.1-2.937e+05	-3.100e+05	1398.8	
65	ok	0.02	0.8	3.36e-04	34.0	34.0	34.0	34.0	-17.3	-16.7	2.0-2.526e+05	-3.460e+05	3.054e+04	
66	ok	0.02	0.9	4.27e-04	34.0	34.0	34.0	34.0	-18.7	-18.5	5.6-2.014e+05	-3.924e+05	6.842e+04	
67	ok	0.02	1.0	8.86e-04	40.7	34.0	48.3	34.0	-21.5	-39.3	17.9-2.233e+05	-5.347e+05	1.622e+05	
68	ok	0.05	1.0	2.21e-03	107.5	48.0	98.3	48.0	-71.2	-21.0	80.4-6.568e+05	-5.346e+05	7.084e+05	
69	ok	0.09	1.0	3.16e-03	159.0	78.4	98.4	51.6	-150.1	-23.1	83.4-1.251e+06	-4.838e+05	7.622e+05	
70	ok	0.04	1.0	2.31e-03	84.1	34.0	57.4	34.0	-131.3	-17.3	18.5-8.961e+05	-5.459e+05	1.845e+05	
71	ok	0.02	0.9	4.19e-04	34.0	34.0	34.0	34.0	-22.9	-15.0	2.6-2.785e+05	-3.495e+05	5.693e+04	
72	ok	0.03	1.0	1.29e-03	63.8	34.0	62.2	34.0	-57.3	-21.9	29.3-5.143e+05	-4.883e+05	3.048e+05	
73	ok	0.10	1.0	3.88e-03	181.9	80.9	71.9	53.0	-235.0	-18.1	32.4-1.895e+06	-3.736e+05	4.123e+05	
74	ok	0.02	0.9	4.81e-04	34.0	34.0	34.0	34.0	-27.1	-15.7	0.7-3.238e+05	-3.237e+05	5.759e+04	
75	ok	0.03	1.0	1.58e-03	75.6	34.0	48.7	34.0	-89.4	-10.3	12.9-7.830e+05	-3.490e+05	2.238e+05	
76	ok	0.09	1.0	4.01e-03	166.5	83.3	72.0	58.3	-241.3	-25.5	-30.7-2.029e+06	-3.781e+05	-8.381e+04	
77	ok	0.04	1.0	2.77e-03	85.5	34.0	40.4	34.0	-146.0	-27.0	-45.0-1.061e+06	-4.834e+05	-4.261e+04	
78	ok	0.02	0.9	4.95e-04	34.0	34.0	34.0	34.0	-27.5	-17.6	-2.3-3.500e+05	-3.016e+05	4.826e+04	
79	ok	0.03	1.0	1.59e-03	67.9	34.0	37.9	34.0	-89.2	-15.0	-13.2-8.402e+05	-3.054e+05	6.808e+04	
80	ok	0.09	1.0	3.63e-03	161.1	107.5	70.6	50.1	-190.2	-66.1	-67.6-1.689e+06	-5.679e+05	-3.442e+05	
81	ok	0.02	0.8	4.98e-04	34.0	34.0	34.0	34.0	-24.7	-20.6	-5.0-3.621e+05	-2.812e+05	3.011e+04	
82	ok	0.03	1.0	1.51e-03	61.4	34.0	38.5	34.0	-64.2	-29.8	-34.9-7.300e+05	-3.209e+05	-1.034e+05	
83	ok	0.07	1.0	3.22e-03	137.7	119.8	85.7	54.5	-138.1	-85.3	-75.7-1.296e+06	-6.503e+05	-4.467e+05	

84	ok	0.03	1.0	2.30e-03	68.9	38.1	48.1	34.9	-55.1	-63.3	-72.4-7.031e+05-3.311e+05-2.393e+05
85	ok	0.02	0.8	4.57e-04	34.0	34.0	34.0	34.0	-18.7	-24.0	-3.5-3.686e+05-2.624e+05 1.683e+04
86	ok	0.02	1.0	1.13e-03	50.8	34.0	41.4	34.0	-23.3	-51.8	-22.6-5.549e+05-4.083e+05-1.114e+05
87	ok	0.06	1.0	2.48e-03	124.9	127.2	69.0	51.0	200.6	-19.4	38.0 1.344e+06-1.950e+05 4.130e+05
88	ok	0.02	0.8	4.17e-04	34.0	34.0	34.0	34.0	-18.6	-23.1	-1.4-3.539e+05-2.685e+05 3284.9
89	ok	0.02	1.0	7.10e-04	38.0	34.0	35.6	34.0	-20.4	-38.1	-6.2-4.667e+05-3.299e+05-5.269e+04
90	ok	0.07	1.0	2.13e-03	133.5	99.5	72.2	76.7	-91.2	-16.8	-62.5-1.315e+06-4.837e+04-5.327e+05
91	ok	0.02	1.0	9.22e-04	34.0	34.3	34.0	34.3	98.6	-3.4	11.9 3.897e+05 -2125.4 1.156e+05
92	ok	0.02	0.8	3.84e-04	34.0	34.0	34.0	34.0	-18.3	-20.4	0.8-3.432e+05-2.654e+05 9346.5
93	ok	0.02	0.9	4.89e-04	34.0	34.0	34.0	34.0	-19.7	-24.7	4.8-3.779e+05-2.400e+05 4.444e+04
94	ok	0.04	1.0	1.81e-03	98.2	60.3	79.8	60.3	-41.3	-23.3	73.0-6.710e+05-1.529e+05 7.062e+05
95	ok	0.02	0.8	4.17e-04	34.0	34.0	34.0	34.0	-18.6	-23.1	1.4-3.536e+05-2.687e+05 -3150.0
96	ok	0.02	1.0	7.09e-04	38.0	34.0	35.7	34.0	-20.4	-38.1	6.1-4.660e+05-3.300e+05 5.300e+04
97	ok	0.07	1.0	2.13e-03	133.2	99.6	72.1	76.7	-91.1	-17.1	62.1-1.311e+06-4.864e+04 5.325e+05
98	ok	0.02	1.0	9.45e-04	34.0	35.7	34.0	35.7	99.4	-3.9	-13.3 4.034e+05 2276.6-1.230e+05
99	ok	0.02	0.8	4.57e-04	34.0	34.0	34.0	34.0	-18.8	-24.0	3.6-3.683e+05-2.627e+05-1.688e+04
100	ok	0.02	1.0	1.13e-03	50.7	34.0	41.4	34.0	-23.4	-51.6	22.7-5.542e+05-4.089e+05 1.111e+05
101	ok	0.06	1.0	2.50e-03	125.1	127.4	69.1	51.1	200.2	-18.3	-38.4 1.344e+06-1.938e+05-4.152e+05
102	ok	0.02	0.8	4.98e-04	34.0	34.0	34.0	34.0	-24.7	-20.6	5.1-3.621e+05-2.813e+05-3.020e+04
103	ok	0.03	1.0	1.50e-03	61.4	34.0	38.5	34.0	-64.0	-29.9	35.0-6.710e+05-3.051e+05-6.781e+04
104	ok	0.07	1.0	3.22e-03	137.6	119.9	85.7	54.3	-138.2	-85.5	75.6-1.296e+06-6.512e+05 4.461e+05
105	ok	0.03	1.0	2.31e-03	69.6	38.4	49.1	34.9	-55.3	-64.3	72.2-6.981e+05-3.450e+05 2.498e+05
106	ok	0.02	0.9	4.95e-04	34.0	34.0	34.0	34.0	-27.4	-17.6	2.3-3.501e+05-3.016e+05-4.820e+04
107	ok	0.03	1.0	1.59e-03	67.9	34.0	37.9	34.0	-89.1	-15.1	13.1-8.406e+05-3.051e+05-6.781e+04
108	ok	0.09	1.0	3.63e-03	161.5	107.5	70.6	50.2	-190.6	-66.0	67.4-1.691e+06-5.669e+05 3.455e+05
109	ok	0.02	0.9	4.80e-04	34.0	34.0	34.0	34.0	-27.1	-15.7	-0.7-3.237e+05-3.235e+05-5.756e+04
110	ok	0.03	1.0	1.58e-03	75.5	34.0	48.7	34.0	-89.3	-10.3	-12.9-7.826e+05-3.490e+05-2.237e+05
111	ok	0.09	1.0	4.01e-03	166.3	83.1	72.0	58.4	-241.2	-25.6	30.8-2.027e+06-3.801e+05 8.237e+04
112	ok	0.04	1.0	2.79e-03	87.6	34.0	40.6	34.0	-146.4	-26.6	46.1-1.083e+06-4.828e+05 4.675e+04
113	ok	0.02	0.9	4.19e-04	34.0	34.0	34.0	34.0	-22.9	-15.0	-2.7-2.785e+05-3.491e+05-5.694e+04
114	ok	0.03	1.0	1.29e-03	63.8	34.0	62.1	34.0	-57.2	-22.0	-29.4-5.145e+05-4.872e+05-3.048e+05
115	ok	0.10	1.0	3.87e-03	181.1	80.9	71.7	52.9	-234.8	-18.1	-32.5-1.893e+06-3.684e+05-4.078e+05
116	ok	0.02	0.8	3.36e-04	34.0	34.0	34.0	34.0	-17.3	-16.7	-2.0-2.526e+05-3.457e+05-3.047e+04
117	ok	0.02	1.0	8.85e-04	40.7	34.0	48.2	34.0	-21.5	-39.2	-17.9-2.234e+05-5.343e+05-1.621e+05
118	ok	0.09	1.0	3.16e-03	158.9	78.6	97.9	51.7	-150.2	-22.9	-83.3-1.251e+06-4.786e+05-7.615e+05
119	ok	0.04	1.0	2.29e-03	82.5	34.0	56.0	34.0	-130.4	-18.3	-18.4-8.855e+05-5.389e+05-1.753e+05

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N x	N y	N xy	M x	M y	M xy
	0.10	0.99	4.01e-03	181.86	127.42	98.39	76.71	-241.27	-85.51	-83.31-2.029e+06-6.512e+05-7.615e+05			
								200.56	-3.37	83.39 1.344e+06 7.915e+04 7.622e+05			

Nodo	Stato	Max tau daN/cm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr daN/cm	V sec daN/cm
11	ok Av	7.28	0.21	0.07	7.8	2.8	2283.3	805.4
12	ok Av	7.14	0.21	0.03	8.0	1.2	2346.2	358.9
13	ok Av	4.62	0.14	0.04	5.1	1.3	1486.9	390.7
14	ok Av	7.12	0.21	0.03	8.0	1.2	2341.9	340.1
17	ok Av	7.28	0.21	0.07	7.8	2.7	2290.2	788.6
26	ok Av	5.13	0.12	0.10	4.6	3.8	1347.4	1113.0
31	ok	1.45						
32	ok Av	5.15	0.12	0.10	4.6	3.7	1356.6	1094.1
39	ok	1.89						
40	ok	1.91						
41	ok	1.28						
42	ok	1.57						
43	ok	1.07						
44	ok	1.13						
45	ok	1.28						
46	ok	1.57						
47	ok	1.91						
48	ok	1.90						
49	ok	1.99						
50	ok	1.37						
51	ok	1.16						
52	ok	1.37						
53	ok	1.99						
54	ok	2.16						
55	ok	1.55						
56	ok	1.33						
57	ok	1.55						
58	ok	2.16						
59	ok	2.16						
60	ok	1.99						
61	ok	1.66						
62	ok	1.99						
63	ok	2.16						

64	ok	2.23							
65	ok Av	2.99	0.09	0.02	3.3	0.8	969.8	223.9	
66	ok	2.84							
67	ok Av	4.58	0.13	0.05	4.8	1.9	1413.3	567.9	
68	ok Av	4.62	0.14	0.04	5.1	1.3	1486.9	390.7	
69	ok Av	5.08	0.15	0.05	5.8	1.9	1685.8	567.9	
70	ok Av	5.08	0.15	0.04	5.8	1.3	1685.8	390.7	
71	ok Av	3.57	0.11	0.02	4.0	0.8	1168.9	223.9	
72	ok Av	6.39	0.19	0.05	7.0	1.9	2047.9	567.9	
73	ok Av	7.14	0.21	0.05	8.0	1.9	2346.2	567.9	
74	ok Av	3.57	0.11	0.02	4.0	0.7	1182.6	200.0	
75	ok Av	6.80	0.21	0.05	7.7	1.9	2261.5	562.0	
76	ok Av	7.14	0.21	0.05	8.0	1.9	2346.2	562.0	
77	ok Av	7.14	0.21	0.05	8.0	1.7	2346.2	491.8	
78	ok Av	3.56	0.11	0.02	4.0	0.8	1182.6	238.1	
79	ok Av	6.91	0.21	0.06	7.7	2.1	2261.5	602.3	
80	ok Av	7.28	0.21	0.07	7.8	2.8	2283.3	805.4	
81	ok Av	3.47	0.10	0.04	3.9	1.5	1131.0	446.6	
82	ok Av	6.91	0.20	0.10	7.6	3.8	2216.2	1122.2	
83	ok Av	7.28	0.21	0.10	7.8	3.8	2283.3	1122.2	
84	ok Av	7.28	0.21	0.10	7.8	3.6	2283.3	1045.2	
85	ok Av	3.25	0.09	0.04	3.4	1.5	982.9	446.6	
86	ok Av	5.84	0.15	0.10	5.4	3.8	1586.4	1122.2	
87	ok Av	5.84	0.15	0.10	5.4	3.8	1586.4	1122.2	
88	ok	2.49							
89	ok Av	4.02	0.08	0.09	2.9	3.5	849.9	1031.6	
90	ok Av	4.46	0.09	0.10	3.4	3.7	1003.6	1094.1	
91	ok Av	4.46	0.09	0.10	3.4	3.7	1003.6	1094.1	
92	ok	1.44							
93	ok	1.44							
94	ok	1.45							
95	ok	2.48							
96	ok Av	4.00	0.08	0.09	2.9	3.5	841.2	1032.3	
97	ok Av	4.44	0.09	0.10	3.3	3.8	972.5	1113.0	
98	ok Av	4.44	0.09	0.10	3.3	3.8	972.5	1113.0	
99	ok Av	3.24	0.09	0.04	3.3	1.5	981.0	443.3	
100	ok Av	5.82	0.14	0.10	5.4	3.8	1582.9	1115.5	
101	ok Av	5.82	0.14	0.10	5.4	3.8	1582.9	1115.5	
102	ok Av	3.47	0.10	0.04	3.9	1.5	1130.1	443.3	
103	ok Av	6.90	0.20	0.10	7.6	3.8	2215.5	1115.5	
104	ok Av	7.28	0.21	0.10	7.8	3.8	2290.2	1115.5	
105	ok Av	7.28	0.21	0.10	7.8	3.6	2290.2	1044.7	
106	ok Av	3.55	0.11	0.02	4.0	0.8	1181.3	237.3	
107	ok Av	6.90	0.21	0.06	7.7	2.1	2255.3	601.7	
108	ok Av	7.28	0.21	0.07	7.8	2.7	2290.2	788.6	
109	ok Av	3.56	0.11	0.02	4.0	0.7	1181.3	198.5	
110	ok Av	6.78	0.21	0.05	7.7	1.9	2255.3	557.6	
111	ok Av	7.12	0.21	0.05	8.0	1.9	2341.9	557.6	
112	ok Av	7.12	0.21	0.04	8.0	1.7	2341.9	483.7	
113	ok Av	3.56	0.11	0.02	4.0	0.8	1168.8	221.7	
114	ok Av	6.38	0.19	0.05	7.0	1.9	2046.6	566.6	
115	ok Av	7.12	0.21	0.05	8.0	1.9	2341.9	566.6	
116	ok Av	2.99	0.09	0.02	3.3	0.8	970.2	221.7	
117	ok Av	4.57	0.13	0.05	4.8	1.9	1411.9	566.6	
118	ok Av	5.07	0.15	0.05	5.7	1.9	1681.4	566.6	
119	ok Av	5.07	0.15	0.04	5.7	1.3	1681.4	389.1	

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	7.28	0.21	0.10	8.01	3.83	2346.22	1122.20

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	200.00	6	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.03	0.8	1.86e-03	22.6	22.6	22.6	22.6	-30.7	-28.9	-32.3	-8.734e+04	3.183e+04	-7.750e+04
2	ok	0.03	1.0	3.00e-03	24.5	22.6	23.2	22.6	-81.1	-7.7	-42.1	-1.840e+05	6.497e+04	-3.425e+04
3	ok	0.03	0.9	2.61e-03	22.6	22.6	22.6	22.6	-79.7	5.6	-26.4	-1.542e+05	2.236e+04	3.653e+04
4	ok	0.03	0.9	3.61e-03	22.6	22.6	22.6	22.6	-120.4	19.9	-6.1	-1.254e+05	-1.733e+04	6.789e+04
5	ok	0.03	0.8	4.25e-03	22.6	22.6	22.6	22.6	72.6	9.7	36.5	1.108e+05	-4.458e+04	4.604e+04
6	ok	0.03	0.7	4.39e-03	22.6	22.6	22.6	22.6	49.0	19.2	-38.4	9.247e+04	-4.748e+04	-5.081e+04

7	ok	0.04	1.0	4.59e-03	34.7	22.6	24.8	22.6	-155.2	-1.8	-1.2-2.523e+05-1.475e+05-2.396e+04
8	ok	0.04	1.0	4.04e-03	37.9	22.6	29.7	22.6	-135.8	18.8	14.4-2.387e+05-1.140e+05 7.392e+04
9	ok	0.04	1.0	3.09e-03	34.3	22.6	24.5	22.6	-78.1	12.5	-12.7-2.483e+05-5.008e+04 3.719e+04
10	ok	0.03	1.0	2.02e-03	26.9	22.6	26.9	22.6	-36.7	-22.7	-37.4-1.575e+05-2.523e+04-9.133e+04
11	ok	0.04	1.0	1.98e-03	31.2	22.6	36.1	22.6	-17.0	-11.8	-48.3-6.253e+04-1.983e+05-1.039e+05
12	ok	0.08	1.0	2.36e-03	87.7	22.6	67.7	22.6	-76.5	5.6	-26.4-4.213e+05-3.050e+05-1.839e+05
13	ok	0.09	1.0	2.25e-03	94.6	22.6	29.3	22.6	-78.6	-11.9	-3.3-6.683e+05-2.027e+05 1.574e+04
14	ok	0.07	1.0	2.34e-03	84.0	22.6	68.3	22.6	-75.6	5.2	26.2-4.242e+05-3.121e+05 1.872e+05
15	ok	0.04	1.0	3.80e-03	38.5	22.6	25.9	22.6	-125.3	6.4	23.0-2.697e+05-8.482e+04-4.993e+04
16	ok	0.03	0.8	3.75e-03	22.6	22.6	22.6	22.6	-119.2	3.2	28.1-1.282e+05 -1728.9-4.885e+04
17	ok	0.04	1.0	1.89e-03	31.3	22.6	36.6	22.6	-15.1	-10.4	48.9-6.786e+04-2.062e+05 1.064e+05
18	ok	0.03	1.0	1.77e-03	22.6	22.6	22.6	22.6	-25.3	-24.7	34.1-8.601e+04-1.907e+04 1.088e+05
19	ok	0.03	1.0	2.80e-03	32.0	22.6	25.9	22.6	-58.7	2.6	25.1-2.377e+05-2.200e+04 2.143e+04
20	ok	0.03	1.0	3.15e-03	27.6	22.6	26.1	22.6	-97.2	20.5	1.7-1.875e+05 3.706e+04-7.511e+04
21	ok	0.03	0.9	2.56e-03	22.6	22.6	22.6	22.6	-52.9	-30.2	42.4-1.477e+05 4.843e+04 4.560e+04
22	ok	0.03	0.8	2.12e-03	22.6	22.6	22.6	22.6	-43.2	-24.5	35.5-1.015e+05 1.839e+04 8.194e+04
23	ok	0.03	1.0	1.81e-03	22.6	27.1	22.6	27.0	34.3	-13.6	13.4 1.650e+05 -7511.3 7.988e+04
24	ok	0.03	1.0	1.69e-03	22.6	22.6	22.6	22.6	31.0	-14.2	12.0 1.584e+05-1.401e+04 2.049e+04
25	ok	0.03	1.0	1.34e-03	22.6	22.6	22.6	22.6	16.6	-13.6	31.5 1.117e+05 -8341.6 8.553e+04
26	ok	0.03	1.0	9.11e-04	22.6	26.0	22.6	26.0	-4.9	-10.2	3.9-9.228e+04-1.316e+05-4.273e+04
27	ok	0.03	1.0	1.11e-03	22.6	32.3	22.6	24.8	63.2	-22.8	0.2 2.161e+05 2.446e+04-5.108e+04
28	ok	0.03	1.0	2.02e-03	22.6	25.6	22.6	23.1	51.7	-22.6	4.5 1.810e+05 -2631.8-2.326e+04
29	ok	0.03	1.0	1.58e-03	22.6	23.5	22.6	23.5	61.9	-28.0	18.9 1.583e+05 1.465e+04 3.642e+04
30	ok	0.04	1.0	1.31e-03	22.6	33.7	22.6	22.9	74.1	-21.8	-1.8 2.390e+05 5.417e+04 1.569e+04
31	ok	0.04	1.0	3.52e-04	22.6	37.1	22.6	22.6	57.5	-9.0	2.6 2.666e+05 4.367e+04 575.4
32	ok	0.03	1.0	1.02e-03	22.6	23.8	22.6	23.8	-2.5	-10.9	-5.6-9.517e+04-1.303e+05 4.041e+04
33	ok	0.03	1.0	1.17e-03	22.6	32.5	22.6	22.7	53.5	-14.1	-12.3 2.331e+05 7425.7 1.003e+04
34	ok	0.03	1.0	1.69e-03	22.6	28.0	22.6	22.7	59.5	-16.4	-13.9 2.003e+05 -3576.7 -7015.8
35	ok	0.03	1.0	1.66e-03	22.6	26.9	22.6	25.2	61.5	-24.7	12.6 1.741e+05 1.877e+04 5.456e+04
36	ok	0.03	1.0	1.77e-03	22.6	28.3	22.6	22.8	47.4	-7.5	3.7 2.029e+05-1.508e+04 1.373e+04
37	ok	0.03	1.0	1.39e-03	22.6	22.6	22.6	22.6	23.8	-8.6	-12.6 1.430e+05-2.499e+04-5.657e+04
38	ok	0.03	0.9	1.54e-03	22.6	22.6	22.6	22.6	16.9	-13.5	-11.9 1.087e+05 1.492e+04-8.229e+04
70	ok	0.10	1.0	2.68e-03	108.8	22.6	57.9	22.6	-88.9	-7.5	-16.7-6.239e+05-2.636e+05-1.586e+05
77	ok	0.05	1.0	2.48e-03	61.4	22.6	63.0	22.6	-58.3	-6.2	-47.2-2.925e+05-2.688e+05-1.613e+05
84	ok	0.03	1.0	1.65e-03	23.7	22.6	26.8	22.6	-3.1	-18.0	-5.6-9.303e+04-1.908e+05 2.608e+04
91	ok	0.04	1.0	5.25e-04	22.6	39.5	22.6	25.7	58.9	-16.1	-10.6 2.623e+05 1.596e+04-6.471e+04
98	ok	0.04	1.0	6.38e-04	22.6	38.4	22.6	26.6	61.4	-19.0	14.1 2.371e+05 1.849e+04 7.124e+04
105	ok	0.03	1.0	1.64e-03	23.8	22.6	26.0	22.6	-6.8	-16.1	6.8-9.908e+04-1.900e+05-1.442e+04
112	ok	0.05	1.0	2.42e-03	59.2	22.6	63.2	22.6	-46.8	-7.5	48.3-2.532e+05-2.968e+05 1.661e+05
119	ok	0.11	1.0	2.71e-03	115.6	22.6	59.0	22.6	-92.2	-6.6	15.8-6.650e+05-2.622e+05 1.681e+05
120	ok	0.03	0.4	7.03e-05	22.6	22.6	22.6	22.6	7.2	9.3	10.5-4.188e+04-3.291e+04-3.623e+04
121	ok	0.03	0.5	1.73e-05	22.6	22.6	22.6	22.6	8.9	32.1	-8.7 1.788e+04-7.185e+04 -7073.9
122	ok	0.03	0.4	2.86e-04	22.6	22.6	22.6	22.6	12.9	2.3	12.2 1.362e+04-5.708e+04 2.296e+04
123	ok	0.03	0.2	7.67e-04	22.6	22.6	22.6	22.6	-1.1	-8.4	1.9 -845.0-3.178e+04 5627.4
124	ok	0.03	0.4	2.49e-04	22.6	22.6	22.6	22.6	-0.8	12.2	-12.4-1.002e+04-5.942e+04 2.539e+04
125	ok	0.03	0.3	7.39e-05	22.6	22.6	22.6	22.6	2.4	2.0	0.2-4.894e+04 -6420.6-1.735e+04
126	ok	0.03	0.5	3.65e-05	22.6	22.6	22.6	22.6	7.1	12.3	-10.6-2.130e+04-5.333e+04 3.831e+04
127	ok	0.03	0.2	9.36e-04	22.6	22.6	22.6	22.6	-1.7	-7.2	2.1 -3401.5-2.907e+04 1.663e+04
128	ok	0.03	0.5	5.73e-04	22.6	22.6	22.6	22.6	-3.4	-6.3	7.2-4.836e+04-3.250e+04 4.191e+04
129	ok	0.03	0.5	0.0	22.6	22.6	22.6	22.6	5.8	31.0	9.4-1.114e+04-7.069e+04-3.213e+04
130	ok	0.03	0.4	0.0	22.6	22.6	22.6	22.6	11.9	4.6	-6.2-4.613e+04-1.909e+04 3.722e+04
131	ok	0.03	0.2	7.78e-04	22.6	22.6	22.6	22.6	-2.4	-4.7	2.8-1.027e+04-2.788e+04 1.891e+04
132	ok	0.03	0.6	1.17e-03	22.6	22.6	22.6	22.6	-38.8	-0.4	2.1-1.001e+05 -3606.0 7796.7
133	ok	0.03	0.3	1.43e-05	22.6	22.6	22.6	22.6	4.7	0.6	-0.2-5.121e+04 -1866.8 7493.6
134	ok	0.03	0.3	2.15e-04	22.6	22.6	22.6	22.6	7.8	-7.1	1.0-4.299e+04 -4081.5-1.565e+04
135	ok	0.03	0.4	1.05e-03	22.6	22.6	22.6	22.6	-27.7	-5.1	-14.8-6.864e+04 -3337.9-2.538e+04
136	ok	0.03	0.2	4.73e-04	22.6	22.6	22.6	22.6	-4.1	-5.7	4.5-1.714e+04-1.543e+04 1.220e+04
137	ok	0.03	0.3	2.92e-04	22.6	22.6	22.6	22.6	-8.7	-1.7	0.6-3.000e+04 -4388.6-1.019e+04
138	ok	0.03	0.5	8.81e-04	22.6	22.6	22.6	22.6	-21.2	-7.8	-13.4-4.804e+04-4.288e+04-3.898e+04
139	ok	0.03	0.2	4.58e-04	22.6	22.6	22.6	22.6	-12.4	0.7	-3.6-2.743e+04 1127.4-1.220e+04
140	ok	0.03	0.3	5.87e-04	22.6	22.6	22.6	22.6	-2.9	-1.2	2.4-2.961e+04-1.392e+04 2.156e+04
141	ok	0.03	0.2	5.87e-04	22.6	22.6	22.6	22.6	-6.3	-2.7	-2.9-2.412e+04-1.169e+04-1.663e+04
142	ok	0.03	0.3	2.97e-04	22.6	22.6	22.6	22.6	5.9	3.74e-02	4.5-3.860e+04-1.785e+04-2.545e+04
143	ok	0.03	0.3	8.53e-04	22.6	22.6	22.6	22.6	-2.8	-2.3	-3.0-1.976e+04-2.034e+04-2.261e+04
144	ok	0.03	0.4	9.55e-04	22.6	22.6	22.6	22.6	-22.3	-6.0	15.7-3.790e+04-1.596e+04 3.255e+04
145	ok	0.03	0.3	6.84e-04	22.6	22.6	22.6	22.6	12.1	-11.7	-1.1 5.002e+04 -7809.9 1.403e+04
146	ok	0.03	0.3	2.35e-04	22.6	22.6	22.6	22.6	-2.1	1.4	-0.2-4.469e+04 -1413.0 9826.2
147	ok	0.03	0.3	9.32e-04	22.6	22.6	22.6	22.6	0.2	-5.1	-2.0 -6263.8-3.638e+04-1.655e+04
148	ok	0.03	0.5	6.94e-04	22.6	22.6	22.6	22.6	-8.4	-14.8	-5.6-2.131e+04-7.574e+04-2.205e+04
149	ok	0.03	0.1	4.87e-04	22.6	22.6	22.6	22.6	3.9	-11.5	-0.4 8615.8 1.359e+04 1.238e+04
150	ok	0.03	0.4	6.83e-04	22.6	22.6	22.6	22.6	-22.3	-0.4	3.1-6.748e+04 -1625.3 1.454e+04
151	ok	0.03	0.2	1.04e-03	22.6	22.6	22.6	22.6	0.1	-7.1	9.94e-02 2290.8-4.039e+04 574.1
152	ok	0.03	0.9	1.22e-03	22.6	22.6	22.6	22.6	-15.3	-10.6	27.0-1.067e+05-1.031e+05 5.410e+04
153	ok	0.03	0.7	7.66e-04	22.6	22.6	22.6	22.6	-17.3	-6.6	12.5-7.487e+04-2.538e+04 6.961e+04
154	ok	0.03	0.3	4.05e-04	22.6	22.6	22.6	22.6	-7.7	-2.6	2.1-4.284e+04 1142.1 882.1
155	ok	0.03	0.3	3.99e-04	22.6	22.6	22.6	22.6	-5.5	-1.4	0.2-4.257e+04 -4497.3 1.652e+04
156	ok	0.03	0.3	7.10e-04	22.6	22.6	22.6	22.6	-5.6	-1.9	2.5-3.849e+04 -7535.3 2.037e+04

157	ok	0.03	0.3	8.77e-04	22.6	22.6	22.6	22.6	0.9	-10.2	14.8	3.728e+04	-1.618e+04	2.015e+04
158	ok	0.03	0.3	1.02e-03	22.6	22.6	22.6	22.6	-3.0	-3.6	3.8	2.029e+04	-2.900e+04	2.553e+04
159	ok	0.03	0.3	6.95e-04	22.6	22.6	22.6	22.6	6.6	-9.1	-0.8	4.150e+04	7599.9	-2.993e+04
160	ok	0.03	0.3	1.12e-03	22.6	22.6	22.6	22.6	-0.4	-7.4	2.7	-3836.5	-4.391e+04	1.434e+04
161	ok	0.03	0.2	6.09e-04	22.6	22.6	22.6	22.6	6.0	-17.6	8.3	2.077e+04	1.406e+04	1.385e+04
162	ok	0.03	0.3	1.15e-03	22.6	22.6	22.6	22.6	-0.4	-8.9	-1.0	416.6	-4.589e+04	-6025.5
163	ok	0.03	0.2	9.48e-04	22.6	22.6	22.6	22.6	-2.9	-8.3	-3.4	3601.0	-3.908e+04	-8439.4
164	ok	0.03	0.2	8.68e-04	22.6	22.6	22.6	22.6	-3.0	-7.5	-3.8	-1.052e+04	-3.174e+04	-1.848e+04
165	ok	0.03	0.3	8.66e-04	22.6	22.6	22.6	22.6	-3.4	-5.1	-3.5	-1.689e+04	-2.990e+04	-2.332e+04
166	ok	0.03	0.2	7.84e-04	22.6	22.6	22.6	22.6	-1.2	-6.7	-3.8	2.705e+04	-1.056e+04	7959.9
167	ok	0.03	0.3	6.04e-04	22.6	22.6	22.6	22.6	-4.1	-0.2	-2.4	-4.055e+04	-1.038e+04	-2.181e+04
168	ok	0.03	0.4	1.00e-03	22.6	22.6	22.6	22.6	-27.0	-4.8	-13.5	-5.043e+04	-1.784e+04	-3.285e+04
169	ok	0.03	0.4	2.97e-04	22.6	22.6	22.6	22.6	-9.5	0.6	2.1	-6.250e+04	-3760.2	884.8
170	ok	0.03	0.8	9.44e-04	22.6	22.6	22.6	22.6	-20.7	-8.0	-15.9	-9.787e+04	-2.408e+04	-5.954e+04
171	ok	0.03	1.0	1.40e-03	26.9	22.6	26.9	22.6	-22.0	-13.9	-27.2	-1.534e+05	-1.342e+05	-5.731e+04
172	ok	0.03	0.8	1.29e-03	22.6	22.6	22.6	22.6	-8.6	-12.2	-32.5	-6.728e+04	-7.189e+04	-7.319e+04
173	ok	0.03	0.7	1.04e-03	22.6	22.6	22.6	22.6	-5.7	-14.8	-3.5	-8.287e+04	-1.156e+05	-2311.9
174	ok	0.03	0.7	8.72e-04	22.6	22.6	22.6	22.6	-6.2	-13.3	-4.1	-8.497e+04	-9.368e+04	6125.7
175	ok	0.03	1.0	7.22e-04	22.6	24.2	22.6	23.9	50.8	-19.7	-13.3	1.577e+05	2.810e+04	-3.545e+04
176	ok	0.03	1.0	6.42e-04	22.6	25.0	22.6	22.7	54.4	-21.2	2.3	1.783e+05	3.480e+04	9320.9
177	ok	0.03	0.8	1.01e-03	22.6	22.6	22.6	22.6	43.2	-20.0	18.4	1.317e+05	2.300e+04	2.103e+04
178	ok	0.03	0.7	9.58e-04	22.6	22.6	22.6	22.6	-4.4	-15.0	4.1	-8.866e+04	-9.884e+04	-6350.5
179	ok	0.03	0.6	1.18e-03	22.6	22.6	22.6	22.6	-9.1	-15.9	4.6	-9.333e+04	-8.494e+04	1.501e+04
180	ok	0.03	0.5	7.73e-04	22.6	22.6	22.6	22.6	-9.7	0.7	1.6	-7.058e+04	-4.237e+04	2.446e+04
181	ok	0.03	0.5	8.99e-04	22.6	22.6	22.6	22.6	-11.5	-10.0	19.2	-2.076e+04	-2.726e+04	6.170e+04
182	ok	0.03	0.3	4.59e-04	22.6	22.6	22.6	22.6	-14.5	0.5	3.6	-4.035e+04	-5533.8	3.120e+04
183	ok	0.03	0.4	5.07e-04	22.6	22.6	22.6	22.6	-13.1	-3.9	2.7	-4.437e+04	-2.063e+04	1.991e+04
184	ok	0.03	0.5	7.70e-04	22.6	22.6	22.6	22.6	-8.4	-2.8	18.4	2.631e+04	-1.206e+04	7.017e+04
185	ok	0.03	0.4	6.48e-04	22.6	22.6	22.6	22.6	-8.0	-4.0	4.0	-2.985e+04	-1.612e+04	2.931e+04
186	ok	0.03	0.4	7.55e-04	22.6	22.6	22.6	22.6	6.6	-14.1	15.5	5.785e+04	-3.309e+04	1.481e+04
187	ok	0.03	0.3	6.83e-04	22.6	22.6	22.6	22.6	1.3	-7.4	7.3	-2.044e+04	-3.334e+04	2.450e+04
188	ok	0.03	0.6	9.31e-04	22.6	22.6	22.6	22.6	27.0	-24.2	19.8	9.346e+04	-2.015e+04	9497.6
189	ok	0.03	0.3	7.65e-04	22.6	22.6	22.6	22.6	-1.8	-10.9	2.8	2569.3	-4.544e+04	1.380e+04
190	ok	0.03	0.3	8.41e-04	22.6	22.6	22.6	22.6	23.2	-25.6	-3.2	5.090e+04	3798.2	-1.433e+04
191	ok	0.03	0.4	8.16e-04	22.6	22.6	22.6	22.6	23.1	-25.7	-2.2	5.875e+04	-5513.4	1.265e+04
192	ok	0.03	0.3	9.28e-04	22.6	22.6	22.6	22.6	-2.1	-11.4	-4.4	-1162.1	-4.296e+04	-1.910e+04
193	ok	0.03	0.3	6.23e-04	22.6	22.6	22.6	22.6	4.3	-11.1	-15.3	4.116e+04	-1.397e+04	-2.240e+04
194	ok	0.03	0.4	7.82e-04	22.6	22.6	22.6	22.6	5.7	-11.7	-18.9	6.489e+04	-3.418e+04	-3.055e+04
195	ok	0.03	0.3	5.46e-04	22.6	22.6	22.6	22.6	-8.4	-4.1	-3.8	-3.656e+04	-1.252e+04	-2.727e+04
196	ok	0.03	0.4	8.14e-04	22.6	22.6	22.6	22.6	-14.4	1.4	-13.1	-1.376e+04	-2.556e+04	-4.629e+04
197	ok	0.03	0.4	5.40e-04	22.6	22.6	22.6	22.6	-2.4	-15.0	-6.9	-1.603e+04	-1.114e+04	-5.555e+04
198	ok	0.03	0.5	5.34e-04	22.6	22.6	22.6	22.6	-10.2	-5.1	-8.2	-3.941e+04	6297.3	-6.190e+04
199	ok	0.03	0.6	9.78e-04	22.6	22.6	22.6	22.6	-11.0	-15.1	-19.5	-5.030e+04	-2.618e+04	-6.539e+04
200	ok	0.03	0.8	8.45e-04	22.6	22.6	22.6	22.6	-7.4	-12.9	-17.8	-6.035e+04	-4.060e+04	-7.931e+04
201	ok	0.03	0.3	9.48e-04	22.6	22.6	22.6	22.6	-4.0	-12.7	1.0	-9865.1	-5.164e+04	1.697e+04
202	ok	0.03	0.3	9.94e-04	22.6	22.6	22.6	22.6	23.7	-28.9	-4.7	4.530e+04	1004.5	1.569e+04
203	ok	0.03	0.4	1.18e-03	22.6	22.6	22.6	22.6	-0.1	-11.8	-0.9	-2.570e+04	-3.932e+04	-1.681e+04
204	ok	0.03	0.4	1.13e-03	22.6	22.6	22.6	22.6	1.3	-8.3	-16.9	4.108e+04	-2.712e+04	-3.241e+04
205	ok	0.03	0.4	8.08e-04	22.6	22.6	22.6	22.6	-19.9	-1.5	13.3	-4.072e+04	-1.430e+04	4.731e+04
206	ok	0.03	0.4	7.54e-04	22.6	22.6	22.6	22.6	-4.3	-13.6	15.5	2.441e+04	-3.521e+04	4.502e+04
207	ok	0.03	0.4	9.72e-04	22.6	22.6	22.6	22.6	2.7	-10.8	18.9	4.730e+04	-3.355e+04	2.760e+04
208	ok	0.03	0.4	7.15e-04	22.6	22.6	22.6	22.6	8.9	-10.6	15.9	6.439e+04	-3.106e+04	3.094e+04
209	ok	0.03	0.3	7.51e-04	22.6	22.6	22.6	22.6	4.5	-14.8	17.4	4.753e+04	-2.433e+04	1.749e+04
210	ok	0.03	0.5	8.16e-04	22.6	22.6	22.6	22.6	24.2	-20.1	11.9	8.308e+04	-1.651e+04	-4213.9
211	ok	0.03	0.4	8.82e-04	22.6	22.6	22.6	22.6	33.7	-24.8	10.4	6.493e+04	1.572e+04	1.258e+04
212	ok	0.03	0.4	8.03e-04	22.6	22.6	22.6	22.6	22.2	-17.3	-16.7	6.967e+04	-2.461e+04	-8540.6
213	ok	0.03	0.3	7.67e-04	22.6	22.6	22.6	22.6	17.2	-20.1	-10.9	4.055e+04	1.883e+04	-9534.5
214	ok	0.03	0.3	7.97e-04	22.6	22.6	22.6	22.6	0.9	-15.3	-17.6	4.385e+04	-3.265e+04	-2.181e+04
215	ok	0.03	0.5	6.00e-04	22.6	22.6	22.6	22.6	-10.7	-2.2	-11.2	-2.537e+04	-2.599e+04	-5.617e+04
216	ok	0.03	0.4	8.20e-04	22.6	22.6	22.6	22.6	-4.5	-15.1	-16.8	1.002e+04	-4.003e+04	-4.874e+04
217	ok	0.03	0.6	6.14e-04	22.6	22.6	22.6	22.6	-9.4	-5.3	-10.7	-4.985e+04	-3.946e+04	-4.589e+04
218	ok	0.03	0.4	7.48e-04	22.6	22.6	22.6	22.6	1.7	-4.6	19.9	4.811e+04	-3.543e+04	5.251e+04
219	ok	0.03	0.6	7.69e-04	22.6	22.6	22.6	22.6	-5.0	-12.3	3.8	-4.627e+04	-6.893e+04	1.905e+04
220	ok	0.03	0.7	7.66e-04	22.6	22.6	22.6	22.6	26.6	-12.1	-16.7	1.093e+05	-1.897e+04	-1.682e+04
221	ok	0.03	0.8	7.84e-04	22.6	22.6	22.6	22.6	42.2	-20.1	-20.2	1.264e+05	1.020e+04	-2.826e+04
222	ok	0.03	0.9	9.45e-04	22.6	22.6	22.6	22.6	53.9	-19.1	1.1	1.527e+05	4.322e+04	2.006e+04
223	ok	0.03	0.4	8.65e-04	22.6	22.6	22.6	22.6	-3.5	-10.8	-3.8	-1.787e+04	-5.925e+04	-8713.3
224	ok	0.03	0.4	8.01e-04	22.6	22.6	22.6	22.6	-6.2	-13.5	0.8	-2.069e+04	-5.337e+04	-1.906e+04
225	ok	0.03	0.4	9.97e-04	22.6	22.6	22.6	22.6	-2.7	-12.8	1.0	-1.720e+04	-6.399e+04	-1989.3
226	ok	0.03	0.5	8.11e-04	22.6	22.6	22.6	22.6	8.9	-8.5	-22.4	6.096e+04	-2.705e+04	-3.698e+04
227	ok	0.03	0.5	7.67e-04	22.6	22.6	22.6	22.6	-7.0	-5.0	3.9	-3.836e+04	-6.188e+04	2.309e+04
228	ok	0.03	0.4	7.64e-04	22.6	22.6	22.6	22.6	-5.5	-9.6	3.7	-2.781e+04	-5.458e+04	1.941e+04
229	ok	0.03	0.6	8.46e-04	22.6	22.6	22.6	22.6	16.0	-11.3	-25.7	7.450e+04	-4.753e+04	-5.931e+04
230	ok	0.03	0.6	8.56e-04	22.6	22.6	22.6	22.6	36.0	-26.0	11.7	9.238e+04	1454.6	3302.1
231	ok	0.03	0.4	8.06e-04	22.6	22.6	22.6	22.6	-7.4	-8.7	-2.9	-4.734e+04	-4.085e+04	-2.286e+04
232	ok	0.03	0.7	7.61e-04	22.6	22.6	22.6	22.6	37.8	-20.4	13.6	1.112e+05	2.950e+04	1.455e+04
233	ok	0.03	0.5	7.71e-04	22.6	22.6	22.6	22.6	29.1	-21.1	-10.6	7.921e+04	343.5	-1.124e+04

234	ok	0.03	0.3	7.41e-04	22.6	22.6	22.6	22.6	17.3	-20.2	-3.2	3.046e+04	3.001e+04	1.539e+04
235	ok	0.03	0.4	8.31e-04	22.6	22.6	22.6	22.6	-4.6	-1.9	-12.5	3.852e+04	-9192.4	-4.444e+04
236	ok	0.03	0.4	1.06e-03	22.6	22.6	22.6	22.6	25.1	-35.1	3.2	6.838e+04	-2.026e+04	-9060.3
237	ok	0.03	0.6	7.98e-04	22.6	22.6	22.6	22.6	1.5	-10.6	3.1	-3.556e+04	-6.210e+04	1.797e+04
238	ok	0.03	0.3	1.10e-03	22.6	22.6	22.6	22.6	10.8	-22.1	12.5	4.230e+04	-1.572e+04	-1.203e+04
239	ok	0.03	0.4	1.01e-03	22.6	22.6	22.6	22.6	4.2	-17.5	-24.8	4.383e+04	-1.496e+04	-3.698e+04
240	ok	0.03	0.9	7.81e-04	22.6	22.6	22.6	22.6	52.1	-20.5	-7.3	1.538e+05	2.535e+04	295.8
241	ok	0.03	0.7	1.09e-03	22.6	22.6	22.6	22.6	25.2	-20.5	-31.0	8.236e+04	-1.163e+04	-4.501e+04
242	ok	0.03	0.4	7.45e-04	22.6	22.6	22.6	22.6	20.0	-18.1	7.8	6.186e+04	-215.9	-1.756e+04
243	ok	0.03	0.6	8.23e-04	22.6	22.6	22.6	22.6	22.7	-14.4	20.3	9.238e+04	-3.089e+04	1.961e+04
244	ok	0.03	0.5	7.03e-04	22.6	22.6	22.6	22.6	-17.6	-13.8	7.1	-6.805e+04	9310.5	4.406e+04
245	ok	0.03	0.6	8.25e-04	22.6	22.6	22.6	22.6	-21.9	-1.2	-12.1	-5.364e+04	-4.020e+04	-3.532e+04
246	ok	0.03	0.4	8.04e-04	22.6	22.6	22.6	22.6	-4.4	-11.8	-18.4	1.394e+04	-4.079e+04	-4.825e+04
247	ok	0.03	0.3	4.89e-04	22.6	22.6	22.6	22.6	-6.6	-3.6	4.4	-4.584e+04	1562.7	-1370.5
248	ok	0.03	0.4	1.76e-04	22.6	22.6	22.6	22.6	-0.7	5.5	0.9	-5.657e+04	-7916.9	2.576e+04
249	ok	0.03	0.4	1.74e-04	22.6	22.6	22.6	22.6	9.0	-2.9	-5.4	-5.853e+04	-1.379e+04	2.232e+04
250	ok	0.03	0.5	1.07e-03	22.6	22.6	22.6	22.6	-33.4	0.4	-8.9	-7.649e+04	-2.401e+04	1.326e+04
251	ok	0.03	0.6	2.46e-05	22.6	22.6	22.6	22.6	9.9	16.0	-11.8	-4.478e+04	-4.805e+04	4.687e+04
252	ok	0.03	0.7	1.11e-03	22.6	22.6	22.6	22.6	-25.4	-12.7	16.9	-6.521e+04	-6.578e+04	4.938e+04
253	ok	0.03	0.6	0.0	22.6	22.6	22.6	22.6	5.8	28.9	-7.5	-5485.7	-9.051e+04	3.214e+04
254	ok	0.03	0.6	8.73e-04	22.6	22.6	22.6	22.6	-9.3	-7.2	1.1	-1.916e+04	-9.131e+04	1.426e+04
255	ok	0.03	0.6	5.04e-05	22.6	22.6	22.6	22.6	-0.1	28.9	3.1	-85.0	-9.567e+04	-1.380e+04
256	ok	0.03	0.5	3.85e-04	22.6	22.6	22.6	22.6	-11.7	23.8	6.6	-1.623e+04	-8.201e+04	-2.092e+04
257	ok	0.03	0.5	2.81e-04	22.6	22.6	22.6	22.6	6.0	7.2	16.0	-2.076e+04	-5.890e+04	-3.353e+04
258	ok	0.03	0.5	5.27e-05	22.6	22.6	22.6	22.6	10.7	12.8	10.1	-3.331e+04	-5.167e+04	-4.712e+04
259	ok	0.03	0.6	5.87e-04	22.6	22.6	22.6	22.6	-17.5	-6.5	-5.4	-8.237e+04	-2.637e+04	-4.052e+04
260	ok	0.03	0.5	3.59e-06	22.6	22.6	22.6	22.6	11.1	3.9	4.2	-6.798e+04	-1.057e+04	-3.172e+04
261	ok	0.03	0.6	1.11e-03	22.6	22.6	22.6	22.6	-37.2	1.2	-0.8	-1.047e+05	-2879.4	-3660.1
262	ok	0.03	0.4	7.82e-05	22.6	22.6	22.6	22.6	1.3	-2.2	-9.62e-03	-6.020e+04	-2620.6	2823.0
263	ok	0.05	1.0	2.29e-03	53.9	22.6	42.1	22.6	-52.8	-12.1	-26.5	-3.182e+05	-2.299e+05	-8.151e+04
264	ok	0.04	1.0	2.29e-03	50.1	22.6	35.3	22.6	-71.7	-3.1	-22.3	-3.412e+05	-2.146e+05	-3.280e+04
265	ok	0.04	1.0	1.70e-03	33.8	22.6	29.1	22.6	-36.4	2.0	-20.9	-2.137e+05	-1.521e+05	-4.692e+04
266	ok	0.03	1.0	1.26e-03	23.2	22.6	23.2	22.6	-14.2	-26.2	-20.9	-1.602e+05	-3.929e+04	-4.200e+04
267	ok	0.03	0.7	7.83e-04	22.6	22.6	22.6	22.6	-21.8	-3.1	-10.0	-1.058e+05	4541.9	-3.530e+04
268	ok	0.03	0.4	2.31e-04	22.6	22.6	22.6	22.6	-3.7	-2.5	1.3	-6.871e+04	9183.8	-9460.5
269	ok	0.03	0.6	8.36e-04	22.6	22.6	22.6	22.6	-11.5	-17.6	-13.1	-1.004e+05	2.436e+04	-2.109e+04
270	ok	0.03	0.7	1.31e-03	22.6	22.6	22.6	22.6	-10.6	-24.4	-25.2	-1.102e+05	2468.4	-1.089e+04
271	ok	0.03	0.6	5.22e-04	22.6	22.6	22.6	22.6	-9.1	1.5	-2.8	-9.404e+04	-2253.5	3.131e+04
272	ok	0.03	0.8	9.82e-04	22.6	22.6	22.6	22.6	-27.2	-0.3	-13.4	-1.016e+05	-3.738e+04	4.970e+04
273	ok	0.03	0.7	1.39e-03	22.6	22.6	22.6	22.6	-32.1	-9.0	-23.4	-7.172e+04	-7.256e+04	4.640e+04
274	ok	0.03	0.7	2.11e-03	22.6	22.6	22.6	22.6	-60.2	3.1	-27.6	-8.521e+04	-8.305e+04	4.244e+04
275	ok	0.03	0.7	3.63e-04	22.6	22.6	22.6	22.6	-10.0	1.1	-3.2	-2.471e+04	-9.484e+04	3.789e+04
276	ok	0.03	0.8	1.32e-03	22.6	22.6	22.6	22.6	-43.2	5.9	6.5	-3.638e+04	-1.291e+05	1.121e+04
277	ok	0.03	0.7	1.40e-03	22.6	22.6	22.6	22.6	-46.7	3.8	1.3	-4.429e+04	-1.179e+05	-2.479e+04
278	ok	0.03	0.7	1.55e-03	22.6	22.6	22.6	22.6	-36.0	3.6	29.6	-7.212e+04	-8.003e+04	-3.854e+04
279	ok	0.03	0.7	9.65e-04	22.6	22.6	22.6	22.6	-21.7	-9.6	15.5	-7.974e+04	-4.773e+04	-4.663e+04
280	ok	0.03	0.8	1.23e-03	22.6	22.6	22.6	22.6	-29.2	-5.7	20.5	-1.167e+05	-2.746e+04	-3.900e+04
281	ok	0.03	0.7	6.57e-04	22.6	22.6	22.6	22.6	-21.1	1.0	-4.5	-1.107e+05	1.160e+04	-3.556e+04
282	ok	0.03	0.7	1.23e-03	22.6	22.6	22.6	22.6	-5.3	-27.6	22.0	-1.106e+05	1.107e+04	1.574e+04
283	ok	0.03	0.6	6.01e-04	22.6	22.6	22.6	22.6	-14.1	-13.7	6.2	-9.783e+04	2.598e+04	2.280e+04
284	ok	0.03	0.6	7.51e-04	22.6	22.6	22.6	22.6	-10.4	-14.5	12.5	-8.337e+04	1170.1	4.703e+04
285	ok	0.03	0.6	6.11e-04	22.6	22.6	22.6	22.6	-10.1	-7.3	9.5	-8.632e+04	-1.447e+04	4.692e+04
286	ok	0.03	1.0	1.12e-03	22.6	22.6	22.6	22.6	-13.9	-18.5	20.9	-1.232e+05	-5.111e+04	6.861e+04
287	ok	0.03	1.0	1.54e-03	28.9	22.6	28.9	22.6	-20.0	-6.2	27.9	-1.562e+05	-1.473e+05	6.472e+04
288	ok	0.05	1.0	2.11e-03	53.9	22.6	40.3	22.6	-56.9	-8.5	29.5	-3.207e+05	-2.231e+05	7.644e+04
289	ok	0.06	1.0	2.34e-03	68.7	22.6	40.6	22.6	-76.6	-4.1	16.1	-4.382e+05	-2.377e+05	6.128e+04
290	ok	0.05	1.0	2.29e-03	63.8	22.6	32.3	22.6	-79.5	-3.2	1.7	-4.583e+05	-2.279e+05	-1.087e+04
291	ok	0.03	0.8	1.22e-03	22.6	22.6	22.6	22.6	-34.3	4.8	1.8	-6.487e+04	-1.160e+05	3.467e+04
292	ok	0.03	0.8	1.14e-03	22.6	22.6	22.6	22.6	-30.7	6.3	5.6	-6.607e+04	-1.077e+05	-3.760e+04
293	ok	0.03	0.8	9.36e-04	22.6	22.6	22.6	22.6	-14.0	-5.7	14.4	-7.990e+04	-1.014e+05	-4.251e+04
294	ok	0.03	0.8	1.02e-03	22.6	22.6	22.6	22.6	-20.9	2.1	15.2	-1.271e+05	-3.155e+04	-2.386e+04
295	ok	0.03	0.7	1.06e-03	22.6	22.6	22.6	22.6	-14.9	-8.4	-14.4	-1.222e+05	-2.058e+04	2791.3
296	ok	0.03	0.7	8.29e-04	22.6	22.6	22.6	22.6	-7.8	-11.3	-10.7	-1.141e+05	-1.817e+04	-2423.6
297	ok	0.03	0.8	1.02e-03	22.6	22.6	22.6	22.6	-17.4	-4.6	-9.9	-1.060e+05	-5.885e+04	4.068e+04
298	ok	0.03	0.9	1.21e-03	22.6	22.6	22.6	22.6	-31.3	-8.3	-17.0	-1.564e+05	-3.262e+04	2.342e+04
299	ok	0.03	0.8	1.25e-03	22.6	22.6	22.6	22.6	-38.3	6.12e-03	-11.8	-1.424e+05	-1.202e+04	1.514e+04
300	ok	0.03	0.9	1.73e-03	22.6	22.6	22.6	22.6	-57.4	8.2	-5.1	-1.237e+05	-6.074e+04	5.219e+04
301	ok	0.03	0.8	1.82e-03	22.6	22.6	22.6	22.6	-53.2	-1.6	-21.5	-6.034e+04	-1.243e+05	-2.119e+04
302	ok	0.03	0.8	1.94e-03	22.6	22.6	22.6	22.6	-23.5	-3.1	13.3	-5.762e+04	-1.286e+05	-6388.1
303	ok	0.03	0.9	1.62e-03	22.6	22.6	22.6	22.6	-39.7	2.7	12.4	-1.421e+05	-5.933e+04	-3.685e+04
304	ok	0.03	0.7	1.09e-03	22.6	22.6	22.6	22.6	-17.8	-4.0	8.2	-1.104e+05	-4.534e+04	-3.376e+04
305	ok	0.03	0.7	1.41e-03	22.6	22.6	22.6	22.6	-21.9	-19.3	26.6	-1.097e+05	-9096.5	4.884e+04
306	ok	0.03	0.7	5.79e-04	22.6	22.6	22.6	22.6	-14.4	-3.8	5.5	-1.209e+05	-7768.1	1871.1
307	ok	0.03	0.9	1.43e-03	22.6	22.6	22.6	22.6	-29.8	-10.5	-25.8	-1.534e+05	-5.933e+04	-9542.1
308	ok	0.03	0.8	9.68e-04	22.6	22.6	22.6	22.6	-12.7	-17.7	16.9	-1.282e+05	-3.786e+04	3.387e+04
309	ok	0.03	1.0	1.99e-03	33.7	22.6	25.8	22.6	-66.9	-7.8	-4.4	-2.305e+05	-1.443e+05	3.222e+04
310	ok	0.04	1.0	2.81e-03	34.9	22.6	31.3	22.6	-94.9	-11.5	-2.4	-2.599e+05	-2.261e+05	-5042.5



311	ok	0.03	0.9	1.37e-03	22.6	22.6	22.6	22.6	-44.2	9.6	7.1-1.183e+05-1.389e+05-2.833e+04
312	ok	0.03	1.0	1.66e-03	23.9	22.6	23.9	22.6	-32.8	-0.4	17.3-1.383e+05-1.197e+05-4.699e+04
313	ok	0.03	1.0	1.88e-03	32.3	22.6	23.3	22.6	-61.1	-5.6	11.8-2.385e+05-1.022e+05-1.702e+04
314	ok	0.04	1.0	2.74e-03	34.5	22.6	29.1	22.6	-83.2	-6.5	28.0-2.350e+05-1.926e+05 -6595.4
315	ok	0.03	1.0	1.44e-03	22.6	22.6	22.8	22.6	-47.6	9.1	4.5-1.233e+05-1.656e+05 3652.3
316	ok	0.03	1.0	1.65e-03	22.8	22.6	22.8	22.6	-33.8	-14.5	29.4-1.689e+05-8.811e+04-1.249e+04
317	ok	0.03	1.0	1.80e-03	26.3	22.6	25.0	22.6	-30.3	3.3	-17.0-1.765e+05-1.006e+05 3.658e+04
318	ok	0.03	0.9	1.22e-03	22.6	22.6	22.6	22.6	-34.6	-1.1	-15.6-1.379e+05-1.015e+05 3.591e+04
319	ok	0.04	1.0	1.90e-03	34.1	22.6	23.9	22.6	-47.8	-17.1	27.7-2.457e+05-1.056e+05 2.838e+04
320	ok	0.03	0.9	7.89e-04	22.6	22.6	22.6	22.6	-13.4	-13.5	8.4-1.587e+05-3.950e+04 -6274.7
321	ok	0.03	1.0	2.12e-03	25.2	22.6	25.2	22.6	-68.1	7.1	-14.7-1.653e+05-1.574e+05 2.622e+04
322	ok	0.03	0.9	9.64e-04	22.6	22.6	22.6	22.6	-14.9	-12.9	17.8-1.520e+05-5.062e+04 -7054.8
323	ok	0.03	1.0	2.06e-03	30.5	22.6	27.8	22.6	-54.8	-5.6	-14.2-2.236e+05-1.975e+05 4760.0
324	ok	0.03	0.6	1.17e-03	22.6	22.6	22.6	22.6	-17.6	-8.6	25.6-9.638e+04-2.059e+04-2.173e+04
325	ok	0.03	1.0	8.18e-04	22.6	22.6	22.6	22.6	-20.6	-2.6	-0.3-1.022e+05-1.500e+05-2.854e+04
326	ok	0.03	0.6	1.55e-03	22.6	22.6	22.6	22.6	-50.9	26.1	8.6-5.978e+04-8.224e+04-3.071e+04
327	ok	0.03	0.6	1.61e-03	22.6	22.6	22.6	22.6	-53.7	31.5	4.0-4.717e+04-8.714e+04 2.391e+04
328	ok	0.03	1.0	1.98e-03	23.6	22.6	23.6	22.6	-59.2	4.8	-22.2-1.661e+05-1.370e+05 1.813e+04
329	ok	0.03	0.8	1.18e-03	22.6	22.6	22.6	22.6	-27.3	16.1	-5.1-9.422e+04-9.581e+04 3.944e+04
330	ok	0.04	1.0	2.71e-03	44.3	22.6	28.8	22.6	-92.7	-2.5	-2.6-3.191e+05-1.999e+05-1.296e+05
331	ok	0.04	1.0	2.22e-03	38.4	22.6	26.9	22.6	-56.9	-9.2	31.8-2.649e+05-1.779e+05 2.425e+04
332	ok	0.03	1.0	1.33e-03	22.6	22.6	22.6	22.6	-39.8	-5.1	-2.7-1.132e+05-1.205e+05 4.605e+04
333	ok	0.03	1.0	1.64e-03	33.4	22.6	23.1	22.6	-45.0	-9.9	-16.2-2.494e+05-1.478e+05 -8.6
334	ok	0.03	0.4	6.73e-04	22.6	22.6	22.6	22.6	11.9	-22.5	0.4-4.039e+04 1.822e+04-3.857e+04
335	ok	0.03	0.8	1.12e-03	22.6	22.6	22.6	22.6	-21.9	-12.8	19.5-1.283e+05 -8971.5 3.871e+04

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N x	N y	N xy	M x	M y	M xy
	0.11	0.99	4.59e-03	115.61	39.53	68.34	26.99	-155.21	-35.08	-48.28-6.683e+05-3.121e+05-1.839e+05			
								74.05	32.13	48.90 2.666e+05 6.497e+04 1.872e+05			

Nodo	Stato	Max tau daN/cm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr daN/cm	V sec daN/cm
1	ok	2.10						
2	ok	2.55						
3	ok Av	7.33	0.18	0.13	6.7	4.9	1135.9	838.5
4	ok	2.70						
5	ok	2.39						
6	ok	2.45						
7	ok Av	5.07	0.15	0.06	5.7	2.2	958.5	378.0
8	ok Av	5.31	0.14	0.09	5.1	3.2	867.2	543.5
9	ok Av	4.93	0.06	0.14	2.2	5.1	373.4	872.4
10	ok Av	3.85	0.04	0.11	1.6	4.1	265.0	693.2
11	ok Av	6.17	0.15	0.11	5.7	4.1	966.1	692.2
12	ok Av	7.24	0.16	0.16	6.0	5.8	1024.4	991.7
13	ok Av	8.16	0.25	0.04	9.2	1.5	1564.5	253.9
14	ok Av	7.63	0.18	0.16	6.8	6.1	1156.4	1040.5
15	ok Av	5.37	0.12	0.12	4.3	4.3	730.2	732.3
16	ok	2.30						
17	ok Av	6.02	0.17	0.07	6.4	2.5	1078.9	428.9
18	ok Av	3.39	0.07	0.08	2.6	2.9	438.4	483.9
19	ok Av	7.99	0.04	0.24	1.5	9.1	257.7	1538.4
20	ok	2.45						
21	ok	2.33						
22	ok	1.66						
23	ok	1.94						
24	ok Av	3.62	0.06	0.09	2.4	3.4	400.8	570.7
25	ok	2.24						
26	ok Av	6.24	0.19	0.08	7.0	3.1	1180.5	520.3
27	ok	2.07						
28	ok	1.36						
29	ok	1.26						
30	ok	1.86						
31	ok	2.76						
32	ok	2.35						
33	ok	2.27						
34	ok	1.28						
35	ok Av	5.88	0.17	0.07	6.2	2.5	1053.0	418.7
36	ok	1.63						
37	ok	2.92						
38	ok	1.52						
70	ok Av	7.92	0.24	0.15	8.9	5.6	1503.6	946.1
77	ok Av	7.72	0.16	0.17	6.0	6.4	1012.4	1088.9
84	ok Av	3.32	0.09	0.10	3.2	3.7	543.3	629.8
91	ok	2.76						
98	ok Av	3.65	0.10	0.06	3.9	2.2	656.5	371.8
105	ok Av	3.73	0.10	0.11	3.6	4.1	603.7	689.7

112	ok Av	6.05	0.08	0.16	3.1	6.1	524.4	1040.5
119	ok Av	8.16	0.25	0.14	9.2	5.3	1564.5	905.5
120	ok	1.00						
121	ok	1.45						
122	ok	1.47						
123	ok	0.44						
124	ok	1.35						
125	ok	1.17						
126	ok	1.53						
127	ok	0.53						
128	ok	1.24						
129	ok	0.95						
130	ok	1.38						
131	ok	0.56						
132	ok	1.08						
133	ok	0.65						
134	ok	0.91						
135	ok	0.80						
136	ok	2.56						
137	ok	0.64						
138	ok	1.53						
139	ok	0.60						
140	ok	0.54						
141	ok	0.59						
142	ok	1.44						
143	ok	0.60						
144	ok	0.65						
145	ok	0.57						
146	ok	0.88						
147	ok	0.42						
148	ok	1.53						
149	ok	0.58						
150	ok	0.78						
151	ok	0.54						
152	ok Av	7.12	0.22	0.08	8.1	2.9	1365.6	483.9
153	ok	1.74						
154	ok	0.88						
155	ok	0.60						
156	ok	0.65						
157	ok	2.60						
158	ok	0.61						
159	ok	0.56						
160	ok	0.41						
161	ok	0.54						
162	ok	0.58						
163	ok	0.54						
164	ok	0.53						
165	ok	0.57						
166	ok	0.60						
167	ok	0.34						
168	ok	0.64						
169	ok	0.80						
170	ok	2.10						
171	ok Av	5.98	0.18	0.11	6.7	4.1	1130.0	693.2
172	ok Av	7.68	0.23	0.05	8.5	2.0	1440.0	336.4
173	ok	2.35						
174	ok	2.10						
175	ok	2.76						
176	ok	2.76						
177	ok	2.85						
178	ok Av	3.71	0.04	0.10	1.6	3.9	266.0	663.9
179	ok Av	3.30	0.08	0.06	3.1	2.1	521.3	362.7
180	ok	2.24						
181	ok	1.94						
182	ok	0.88						
183	ok	1.94						
184	ok	1.50						
185	ok	1.19						
186	ok	1.08						
187	ok	1.36						
188	ok	1.25						
189	ok	1.11						
190	ok	1.26						
191	ok	1.27						
192	ok	1.14						
193	ok	1.28						
194	ok	1.20						

195	ok	1.63						
196	ok	1.26						
197	ok	1.52						
198	ok	1.13						
199	ok	1.53						
200	ok	2.92						
201	ok	1.26						
202	ok	1.27						
203	ok	1.28						
204	ok	1.63						
205	ok	1.94						
206	ok	1.50						
207	ok	1.19						
208	ok	1.19						
209	ok	1.08						
210	ok	1.36						
211	ok	1.26						
212	ok	1.28						
213	ok	1.27						
214	ok	1.20						
215	ok	1.52						
216	ok	1.26						
217	ok	2.92						
218	ok	2.24						
219	ok	2.07						
220	ok	2.27						
221	ok	1.86						
222	ok	1.88						
223	ok	1.26						
224	ok	1.26						
225	ok	1.48						
226	ok	2.27						
227	ok	1.33						
228	ok	1.33						
229	ok	2.22						
230	ok	1.75						
231	ok	1.37						
232	ok	1.88						
233	ok	2.21						
234	ok	1.15						
235	ok	1.63						
236	ok	1.11						
237	ok	2.07						
238	ok	1.36						
239	ok	1.14						
240	ok	1.86						
241	ok	2.27						
242	ok	1.25						
243	ok	2.24						
244	ok	1.20						
245	ok	1.52						
246	ok	1.15						
247	ok	0.80						
248	ok	1.08						
249	ok	0.97						
250	ok Av	4.73	0.14	0.04	5.1	1.7	866.0	281.2
251	ok	1.17						
252	ok	1.53						
253	ok	1.06						
254	ok	1.47						
255	ok	1.49						
256	ok	2.49						
257	ok	1.15						
258	ok	1.53						
259	ok	1.44						
260	ok	1.13						
261	ok	1.17						
262	ok	0.63						
263	ok Av	7.24	0.16	0.16	6.0	5.8	1024.4	991.7
264	ok Av	7.92	0.24	0.15	8.9	5.6	1503.6	946.1
265	ok Av	5.79	0.08	0.16	3.0	5.8	509.6	991.7
266	ok Av	3.85	0.04	0.11	1.6	4.1	265.0	693.2
267	ok	2.10						
268	ok	0.96						
269	ok	1.30						
270	ok	2.55						
271	ok	1.66						

272	ok	2.42						
273	ok	2.18						
274	ok	2.70						
275	ok	2.25						
276	ok	2.39						
277	ok	2.45						
278	ok	2.30						
279	ok	1.95						
280	ok	2.45						
281	ok	1.36						
282	ok	2.33						
283	ok	1.46						
284	ok	1.66						
285	ok	1.77						
286	ok Av	3.39	0.07	0.08	2.6	2.9	438.4	483.9
287	ok Av	3.63	0.09	0.08	3.3	2.9	560.8	483.9
288	ok Av	7.63	0.18	0.16	6.8	6.1	1156.4	1040.5
289	ok Av	8.16	0.25	0.14	9.2	5.3	1564.5	905.5
290	ok Av	8.16	0.25	0.04	9.2	1.5	1564.5	259.3
291	ok	2.88						
292	ok	2.63						
293	ok	2.63						
294	ok	2.45						
295	ok	2.55						
296	ok	2.55						
297	ok	2.50						
298	ok	2.42						
299	ok	2.00						
300	ok	2.50						
301	ok	2.88						
302	ok	2.45						
303	ok	2.06						
304	ok	2.45						
305	ok	1.77						
306	ok	2.33						
307	ok	3.16						
308	ok	2.67						
309	ok Av	5.38	0.13	0.13	4.8	4.9	809.7	822.5
310	ok Av	6.47	0.19	0.06	7.2	2.2	1219.2	378.0
311	ok Av	3.80	0.08	0.08	3.0	3.1	502.2	531.9
312	ok Av	3.80	0.08	0.08	3.0	3.1	502.2	531.9
313	ok Av	4.69	0.08	0.13	2.9	4.7	488.2	800.2
314	ok Av	5.37	0.15	0.12	5.7	4.3	958.5	732.3
315	ok Av	4.32	0.13	0.06	4.9	2.2	825.9	378.0
316	ok Av	3.84	0.08	0.10	2.9	3.8	488.2	641.6
317	ok Av	4.50	0.07	0.13	2.7	4.9	459.6	822.5
318	ok Av	3.32	0.07	0.07	2.7	2.6	459.6	445.7
319	ok Av	6.05	0.08	0.16	3.1	6.1	524.4	1040.5
320	ok Av	3.59	0.04	0.10	1.3	3.9	224.8	653.9
321	ok Av	5.31	0.14	0.09	5.1	3.2	867.2	543.5
322	ok Av	3.59	0.04	0.10	1.3	3.9	224.8	653.9
323	ok Av	5.91	0.18	0.09	6.6	3.2	1116.0	543.5
324	ok	1.44						
325	ok Av	3.44	0.09	0.06	3.2	2.2	544.5	378.0
326	ok	1.84						
327	ok	2.25						
328	ok Av	4.85	0.13	0.07	4.8	2.7	809.7	465.3
329	ok	2.70						
330	ok Av	6.47	0.19	0.12	7.2	4.5	1219.2	766.0
331	ok Av	6.23	0.15	0.13	5.5	4.7	924.7	800.2
332	ok	2.70						
333	ok Av	5.38	0.10	0.14	3.8	5.1	647.2	872.4
334	ok	2.10						
335	ok	2.33						
<b>Nodo</b>		<b>Max tau</b>	<b>Ver V pr</b>	<b>Ver V sec</b>	<b>Af V pr</b>	<b>Af V sec</b>	<b>V pr</b>	<b>V sec</b>
		8.16	0.25	0.24	9.23	9.07	1564.53	1538.41

# STATI LIMITE D' ESERCIZIO

## LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

<b>rRfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
<b>rRfyk</b>	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
<b>rPfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
<b>wR</b>	apertura caratteristica delle fessure in combinazioni rare [mm]
<b>wF</b>	apertura caratteristica delle fessure in combinazioni frequenti [mm]
<b>wP</b>	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]
<b>dR</b>	massima deformazione in combinazioni rare
<b>dF</b>	massima deformazione in combinazioni frequenti
<b>dP</b>	massima deformazione in combinazioni quasi permanenti

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastri	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	per sezioni significative
travi	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	per sezioni significative
	<b>wR</b>	<b>wF</b>	<b>wP</b>	per sezioni significative
	<b>dR</b>	<b>dF</b>	<b>dP</b>	massimi in campata
	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	massimi nei nodi dell'elemento
setti e gusci	<b>wR</b>	<b>wF</b>	<b>wP</b>	massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR mm	wF mm	wP mm	Rif. cmb
1	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
2	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
3	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
4	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
5	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
6	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
7	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
8	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
9	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
10	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
11	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
12	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
13	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
14	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
15	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
16	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
17	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
18	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
19	0.0	0.0	0.35	0,0,4	0.0	0.38	0.34	0,3,4
20	0.0	0.0	0.45	0,0,4	0.0	0.37	0.34	0,3,4
21	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
22	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
23	0.0	0.0	0.35	0,0,4	0.0	0.41	0.32	0,3,4
24	0.0	0.0	0.48	0,0,4	0.0	0.40	0.37	0,3,4
25	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
26	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
27	0.0	0.0	0.40	0,0,4	0.0	0.39	0.36	0,3,4
28	0.0	0.0	0.49	0,0,4	0.0	0.37	0.34	0,3,4
29	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
30	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
31	0.0	0.0	0.40	0,0,4	0.0	0.39	0.36	0,3,4
32	0.0	0.0	0.45	0,0,4	0.0	0.40	0.34	0,3,4
33	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
34	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
35	0.0	0.0	0.42	0,0,4	0.0	0.40	0.36	0,3,4
36	0.0	0.0	0.42	0,0,4	0.0	0.36	0.33	0,3,4
37	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
38	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
39	0.0	0.0	0.42	0,0,4	0.0	0.41	0.36	0,3,4
40	0.0	0.0	0.37	0,0,4	0.0	0.40	0.36	0,3,4
41	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
42	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
43	0.0	0.0	0.41	0,0,4	0.0	0.34	0.30	0,3,4
44	0.0	0.0	0.33	0,0,4	0.0	0.37	0.34	0,3,4
45	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
46	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
47	0.0	0.0	0.36	0,0,4	0.0	0.37	0.34	0,3,4
48	0.0	0.0	0.27	0,0,4	0.0	0.30	0.24	0,3,4
49	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
50	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
51	0.0	0.0	0.36	0,0,4	0.0	0.37	0.34	0,3,4
52	0.0	0.0	0.27	0,0,4	0.0	0.30	0.24	0,3,4
53	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
54	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
55	0.0	0.0	0.41	0,0,4	0.0	0.34	0.30	0,3,4
56	0.0	0.0	0.33	0,0,4	0.0	0.37	0.34	0,3,4
57	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
58	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
59	0.0	0.0	0.42	0,0,4	0.0	0.41	0.36	0,3,4
60	0.0	0.0	0.37	0,0,4	0.0	0.40	0.36	0,3,4
61	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
62	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
63	0.0	0.0	0.42	0,0,4	0.0	0.40	0.36	0,3,4
64	0.0	0.0	0.42	0,0,4	0.0	0.36	0.33	0,3,4
65	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
66	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
67	0.0	0.0	0.40	0,0,4	0.0	0.39	0.36	0,3,4
68	0.0	0.0	0.45	0,0,4	0.0	0.40	0.36	0,3,4
69	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
70	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
71	0.0	0.0	0.40	0,0,4	0.0	0.39	0.36	0,3,4
72	0.0	0.0	0.49	0,0,4	0.0	0.37	0.34	0,3,4
73	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0

74	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
75	0.0	0.0	0.35	0,0,4	0.0	0.41	0.32	0,3,4
76	0.0	0.0	0.47	0,0,4	0.0	0.40	0.37	0,3,4
77	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
78	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
79	0.0	0.0	0.35	0,0,4	0.0	0.38	0.34	0,3,4
80	0.0	0.0	0.45	0,0,4	0.0	0.37	0.34	0,3,4
81	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
82	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
83	0.0	0.0	0.32	0,0,4	0.0	0.53	0.52	0,3,4
84	0.0	0.0	0.06	0,0,4	0.0	0.0	0.0	0,0,0
85	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
86	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
87	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
88	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
89	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
90	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
91	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
92	0.0	0.0	0.08	0,0,4	0.0	0.0	0.0	0,0,0
93	0.0	0.0	0.05	0,0,4	0.0	0.0	0.0	0,0,0
94	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
95	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
96	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
97	0.0	0.0	0.12	0,0,4	0.0	0.0	0.0	0,0,0
98	0.0	0.0	0.08	0,0,4	0.0	0.0	0.0	0,0,0
99	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
100	0.0	0.0	0.12	0,0,4	0.0	0.0	0.0	0,0,0
101	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
102	0.0	0.0	0.06	0,0,4	0.0	0.0	0.0	0,0,0
103	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
104	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
105	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
106	0.0	0.0	0.07	0,0,4	0.0	0.0	0.0	0,0,0
107	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
108	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
109	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
110	0.0	0.0	0.08	0,0,4	0.0	0.0	0.0	0,0,0
111	0.0	0.0	0.26	0,0,4	0.0	0.0	0.0	0,0,0
112	0.0	0.0	0.07	0,0,4	0.0	0.0	0.0	0,0,0
113	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
114	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
115	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
116	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
117	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
118	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
119	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
120	0.0	0.0	0.12	0,0,4	0.0	0.0	0.0	0,0,0
121	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
122	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
123	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
124	0.0	0.0	0.07	0,0,4	0.0	0.0	0.0	0,0,0
125	0.0	0.0	0.06	0,0,4	0.0	0.0	0.0	0,0,0
126	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
127	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
128	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
129	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
130	0.0	0.0	0.08	0,0,4	0.0	0.0	0.0	0,0,0
131	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
132	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
133	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
134	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
135	0.0	0.0	0.12	0,0,4	0.0	0.0	0.0	0,0,0
136	0.0	0.0	0.05	0,0,4	0.0	0.0	0.0	0,0,0
137	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
138	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
139	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
140	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
141	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
142	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
143	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
144	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
145	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
146	0.0	0.0	0.07	0,0,4	0.0	0.0	0.0	0,0,0
147	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
148	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
149	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
150	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0

151	0.0	0.0	0.03	0,0,4	0.0	0.0	0.0	0,0,0
152	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
153	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
154	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
155	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
156	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
157	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
158	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
159	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
160	0.0	0.0	0.05	0,0,4	0.0	0.0	0.0	0,0,0
161	0.0	0.0	0.08	0,0,4	0.0	0.0	0.0	0,0,0
162	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
163	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
164	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
165	0.0	0.0	0.12	0,0,4	0.0	0.0	0.0	0,0,0
166	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
167	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
168	0.0	0.0	0.05	0,0,4	0.0	0.0	0.0	0,0,0
169	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
170	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
171	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
172	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
173	0.0	0.0	0.12	0,0,4	0.0	0.0	0.0	0,0,0
174	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
175	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
176	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
177	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
178	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
179	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
180	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
181	0.0	0.0	0.07	0,0,4	0.0	0.0	0.0	0,0,0
182	0.0	0.0	0.04	0,0,4	0.0	0.0	0.0	0,0,0
183	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
184	0.0	0.0	0.09	0,0,4	0.0	0.0	0.0	0,0,0
185	0.0	0.0	0.05	0,0,4	0.0	0.0	0.0	0,0,0
186	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
187	0.0	0.0	0.34	0,0,4	0.0	0.52	0.50	0,3,4
188	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
189	0.0	0.0	0.10	0,0,4	0.0	0.0	0.0	0,0,0
190	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
191	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
192	0.0	0.0	0.08	0,0,4	0.0	0.0	0.0	0,0,0
193	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
194	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
195	0.0	0.0	0.42	0,0,4	0.0	0.42	0.39	0,3,4
196	0.0	0.0	0.36	0,0,4	0.0	0.46	0.42	0,3,4
197	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
198	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
199	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
200	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
201	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
202	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
203	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
204	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
205	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
206	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
207	0.0	0.0	0.28	0,0,4	0.0	0.45	0.0	0,3,0
208	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
209	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
210	0.0	0.0	0.52	0,0,4	0.0	0.46	0.42	0,3,4
211	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
212	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
213	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
214	0.0	0.0	0.27	0,0,4	0.0	0.0	0.0	0,0,0
215	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
216	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
217	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
218	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
219	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
220	0.0	0.0	0.40	0,0,4	0.0	0.48	0.43	0,3,4
221	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
222	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
223	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
224	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
225	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
226	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
227	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0



228	0.0	0.0	0.24	0,0,4	0.0	0.0	0.0	0,0,0
229	0.0	0.0	0.53	0,0,4	0.0	0.46	0.42	0,3,4
230	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
231	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
232	0.0	0.0	0.28	0,0,4	0.0	0.47	0.0	0,3,0
233	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
234	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
235	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
236	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
237	0.0	0.0	0.32	0,0,4	0.0	0.46	0.42	0,3,4
238	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
239	0.0	0.0	0.35	0,0,4	0.0	0.43	0.40	0,3,4
240	0.0	0.0	0.25	0,0,4	0.0	0.0	0.0	0,0,0
241	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
242	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
243	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
244	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
245	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
246	0.0	0.0	0.47	0,0,4	0.0	0.43	0.40	0,3,4
247	0.0	0.0	0.40	0,0,4	0.0	0.48	0.43	0,3,4
248	0.0	0.0	0.28	0,0,4	0.0	0.0	0.0	0,0,0
249	0.0	0.0	0.29	0,0,4	0.0	0.46	0.0	0,3,0
250	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
251	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
252	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
253	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
254	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
255	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
256	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
257	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
258	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
259	0.0	0.0	0.39	0,0,4	0.0	0.46	0.43	0,3,4
260	0.0	0.0	0.13	0,0,4	0.0	0.0	0.0	0,0,0
261	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
262	0.0	0.0	0.48	0,0,4	0.0	0.45	0.41	0,3,4
263	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
264	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
265	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
266	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
267	0.0	0.0	0.28	0,0,4	0.0	0.0	0.0	0,0,0
268	0.0	0.0	0.35	0,0,4	0.0	0.46	0.41	0,3,4
269	0.0	0.0	0.27	0,0,4	0.0	0.0	0.0	0,0,0
270	0.0	0.0	0.54	0,0,4	0.0	0.44	0.40	0,3,4
271	0.0	0.0	0.53	0,0,4	0.0	0.46	0.42	0,3,4
272	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0
273	0.0	0.0	0.16	0,0,4	0.0	0.0	0.0	0,0,0
274	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
275	0.0	0.0	0.27	0,0,4	0.0	0.0	0.0	0,0,0
276	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
277	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
278	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
279	0.0	0.0	0.26	0,0,4	0.0	0.0	0.0	0,0,0
280	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
281	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
282	0.0	0.0	0.33	0,0,4	0.0	0.46	0.42	0,3,4
283	0.0	0.0	0.27	0,0,4	0.0	0.0	0.0	0,0,0
284	0.0	0.0	0.18	0,0,4	0.0	0.0	0.0	0,0,0
285	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
286	0.0	0.0	0.30	0,0,4	0.0	0.48	0.42	0,3,4
287	0.0	0.0	0.27	0,0,4	0.0	0.0	0.0	0,0,0
288	0.0	0.0	0.28	0,0,4	0.0	0.46	0.0	0,3,0
289	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
290	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
291	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
292	0.0	0.0	0.19	0,0,4	0.0	0.0	0.0	0,0,0
293	0.0	0.0	0.17	0,0,4	0.0	0.0	0.0	0,0,0
294	0.0	0.0	0.23	0,0,4	0.0	0.0	0.0	0,0,0
295	0.0	0.0	0.22	0,0,4	0.0	0.0	0.0	0,0,0
296	0.0	0.0	0.28	0,0,4	0.0	0.0	0.0	0,0,0
297	0.0	0.0	0.21	0,0,4	0.0	0.0	0.0	0,0,0
298	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
299	0.0	0.0	0.40	0,0,4	0.0	0.52	0.51	0,3,4
300	0.0	0.0	0.29	0,0,4	0.0	0.46	0.0	0,3,0
301	0.0	0.0	0.20	0,0,4	0.0	0.0	0.0	0,0,0
302	0.0	0.0	0.34	0,0,4	0.0	0.48	0.43	0,3,4
303	0.0	0.0	0.11	0,0,4	0.0	0.0	0.0	0,0,0
304	0.0	0.0	0.14	0,0,4	0.0	0.0	0.0	0,0,0

305	0.0	0.0	0.40	0,0,4	0.0	0.53	0.52	0,3,4
306	0.0	0.0	0.31	0,0,4	0.0	0.55	0.0	0,3,0
307	0.0	0.0	0.15	0,0,4	0.0	0.0	0.0	0,0,0
308	0.0	0.0	0.42	0,0,4	0.0	0.41	0.39	0,3,4
309	0.0	0.0	0.26	0,0,4	0.0	0.0	0.0	0,0,0
<b>Guscio</b>	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>		<b>wR</b>	<b>wF</b>	<b>wP</b>	
	0.0	0.0	0.54		0.0	0.55	0.52	

# RELAZIONE GEOTECNICA E DELLE FONDAZIONI

## Parte 1 – Verifica in condizioni non drenate

### NORMATIVE DI RIFERIMENTO

In quanto di seguito riportato viene fatto esplicito riferimento alle seguenti Normative:

- **LEGGE n° 64 del 02/02/1974.** "Provvedimenti per le costruzioni, con particolari prescrizioni per le zone sismiche.";
- **D.M. LL.PP. del 11/03/1988.** "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.";
- **D.M. LL.PP. del 16/01/1996.** "Norme tecniche per le costruzioni in zone sismiche.";
- **Circolare Ministeriale LL.PP. n° 65/AA.GG. del 10/04/1997.** "Istruzioni per l'applicazione delle "Norme Tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/1996.";
- **Eurocodice 1 - Parte 1** - "Basi di calcolo ed azioni sulle strutture - Basi di calcolo -.";
- **Eurocodice 7 - Parte 1** - "Progettazione geotecnica - Regole generali -.";
- **Eurocodice 8 - Parte 5** - "Indicazioni progettuali per la resistenza sismica delle strutture - Fondazioni, strutture di contenimento ed aspetti geotecnici -.";
- **D.M. 17/01/2018 - NUOVE NORME TECNICHE PER LE COSTRUZIONI**
- **Circolare n. 7 del 21/01/2019**

### INDAGINI IN SITO E CARATTERIZZAZIONE GEOTECNICA DEI TERRENI DI FONDAZIONE

La finalità della presente relazione è quella di definire il comportamento meccanico del volume di terreno (volume significativo) influenzato direttamente o indirettamente dalla costruzione di un manufatto e che a sua volta influenza il comportamento strutturale del manufatto stesso. Di seguito si illustrano i risultati delle indagini geologiche eseguite, nonché l'interpretazione dei risultati ottenuti. Dal quadro generale in tal modo scaturito si definiscono le caratteristiche della fondazione da adottare ed il modello da utilizzare per le elaborazioni relative alla interazione sovrastruttura-fondazione e fondazione-terreno.

.....  
Le risultanze dell'indagine in sito hanno evidenziato che:

.....  
Di seguito si riportano alcuni cenni teorici relativi alle modalità di calcolo implementate e la descrizione della simbologia adottata nei tabulati.

### DETERMINAZIONE DELLA PORTANZA VERTICALE DI FONDAZIONI PROFONDE

Per la determinazione della portanza verticale di fondazioni profonde si fa riferimento a due contributi: la "portanza di punta" e la "portanza per attrito laterale". Queste due componenti in genere sono calcolate in maniera autonoma dato che risulta molto difficoltoso, tranne che in poche situazioni, stabilire quanta parte del carico è assorbita dall'attrito laterale e quanta dalla resistenza alla punta. Nel seguito, ai fini del calcolo della portanza verticale, si assumeranno le seguenti espressioni generali valide per il caso di palo soggetto a compressione e per il caso di palo soggetto a trazione (nel calcolo della portanza verticale è possibile tenere in conto tutti o solo uno dei contributi su definiti):

$$Q_C = \frac{Q_P}{\eta_P} + \frac{Q_L}{\eta_L} - W_{ATT.NEG.} - W_P \quad (\text{caso di palo in compressione}) \quad Q_T$$
$$= \frac{Q_L}{\eta_L} + W_P \quad (\text{caso di palo in trazione})$$

dove i simboli su riportati hanno il seguente significato:

- $Q_C$  resistenza a compressione del palo
- $Q_T$  resistenza a trazione del palo
- $Q_P$  carico limite verticale alla punta del palo
- $Q_L$  carico limite verticale lungo la superficie laterale del palo

- $W_{ATT.NEG.}$  attrito negativo agente sul palo
- $W_P$  peso totale del palo
- $\eta_{II}$  coefficiente di sicurezza per carico limite verticale alla punta del palo
- $\eta_A$  coefficiente di sicurezza per carico limite verticale lungo la superficie laterale del palo

I valori del carico limite verticale alla punta del palo " $Q_P$ " e del carico limite verticale lungo la superficie laterale del palo " $Q_L$ " sono determinati con le note "formule statiche". Queste esprimono i valori di cui sopra in funzione della geometria del palo, delle caratteristiche geotecniche del terreno in cui è immerso, della modalità esecutiva e dell'interfaccia palo-terreno.

Di seguito si illustrano le metodologie con le quali saranno determinati i valori prima citati; è necessario tenere presente che tali metodi sono riferiti al calcolo del "singolo palo" e per estendere tale modalità computazione al caso di "pali in gruppo" si farà ricorso ai "coefficienti d'efficienza", in questo modo si potrà tenere in debito conto l'interferenza reciproca che i pali esercitano.

### CARICO LIMITE VERTICALE ALLA PUNTA DEL PALO

Il valore del carico limite verticale alla punta del palo, indipendentemente dal metodo utilizzato per la sua determinazione, è condizionato dalla modalità esecutiva. Esso varia notevolmente a seconda che il palo sia del tipo "infisso" o "trivellato" poiché le caratteristiche fisico-meccaniche del terreno circostante il palo variano in seguito alle operazioni d'installazione. Di conseguenza, per tenere conto della modalità esecutiva nel calcolo dei coefficienti di portanza, si propone di modificare il valore dell'angolo di resistenza a taglio secondo quanto suggerito da Kishida (1967):

$$\phi_{cor} = \frac{\phi + 40}{2} \quad (\text{per pali infissi}) \quad \phi_{cor} = \phi - 3^\circ \quad (\text{per pali trivellati})$$

Con la correzione di cui sopra si determineranno i fattori adimensionali di portanza che sono presenti nella relazione per la determinazione del carico limite verticale alla punta che assume la seguente espressione:

$$Q_P = A_P \cdot (q_P \cdot N_q^* + c \cdot N_c^*)$$

dove i simboli su riportati hanno il seguente significato:

- $A_P$  superficie portante efficace della punta del palo
- $q_P$  pressione del terreno presente alla punta del palo
- $c$  coesione del terreno alla punta del palo (nel caso di condizione non drenata  $c = c_u$ )
- $N_q^*, N_c^*$  fattori adimensionali di portanza funzione dell'angolo d'attrito interno  $\phi_{top}$  del terreno già corretti

In letteratura esistono diverse formulazioni per il calcolo dei fattori adimensionali di portanza, di seguito si riportano quelle che sono state implementate:

#### Formulazione di Meyerhof per base poggiate su terreni sciolti (1951)

- se  $\phi \neq 0$  (condizione drenata) si ha:

$$\begin{aligned} N_q &= \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) \cdot e^{\pi \cdot \text{tg}(\phi)} & N_c &= (N_q - 1) \cdot \text{ctg}(\phi) \\ s_q &= 1 + 0.1 \cdot \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) & s_c &= 1 + 0.2 \cdot \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) \end{aligned} \quad (\text{fattori di forma})$$

$$d_q = 1 + 0.1 \cdot \frac{L}{D} \cdot \sqrt{\text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right)} \quad d_c = 1 + 0.2 \cdot \frac{L}{D} \cdot \sqrt{\text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right)} \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

- se  $\phi = 0$  (condizione non drenata) si ha:

$$\begin{aligned} N_q &= 1.00 & N_c &= \pi + 2 \\ s_q &= 1.00 & s_c &= 1.20 \end{aligned} \quad (\text{fattori di forma})$$

$$d_q = 1.00 \quad d_c = 1 + 0.2 \cdot \frac{L}{D} \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

#### Formulazione di Hansen per base poggiate su terreni sciolti (1970)

- se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q = \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) \cdot e^{\pi \cdot \text{tg}(\phi)} \quad N_c = (N_q - 1) \cdot \text{ctg}(\phi)$$

$$s_q = 1 + \operatorname{tg}(\phi) \qquad s_c = 1 + \frac{N_q}{N_c} \qquad \text{(fattori di forma)}$$

$$d_q = 1 + 2 \cdot \operatorname{tg}(\phi) \cdot (1 - \operatorname{sen}(\phi))^2 \cdot \theta \qquad d_c = 1 + 0.4 \cdot \theta \qquad \text{(fattori d'approfondimento)}$$

$$\text{dove: se } \frac{L}{D} \leq 1 \Rightarrow \theta = \frac{L}{D}, \text{ se } \frac{L}{D} > 1 \Rightarrow \theta = \operatorname{arctg}\left(\frac{L}{D}\right)$$

$$N_q^* = N_q \cdot s_q \cdot d_q \qquad N_c^* = N_c \cdot s_c \cdot d_c$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q = 1.00$$

$$N_c = \pi + 2$$

$$s_q = 1.00$$

$$s_c = 1.20$$

(fattori di forma)

$$d_q = 1.00$$

$$d_c = 1 + 0.4 \cdot \theta$$

(fattori d'approfondimento)

$$N_q^* = N_q \cdot s_q \cdot d_q$$

$$N_c^* = N_c \cdot s_c \cdot d_c$$

### Formulazione di Zeevaert per base poggiate su terreni sciolti (1972)

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = \frac{\cos^2(\phi)}{2 \cdot \cos^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \cdot e^{\left(\frac{\pi}{2} + \phi\right) \cdot \operatorname{tg}(\phi)} \qquad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00$$

$$N_c^* = 9.00$$

### Formulazione di Berezantzev per base poggiate su terreni sciolti (1970)

Berezantzev fa riferimento ad una superficie di scorrimento "alla Terzaghi" che si arresta sul piano della punta del palo. Inoltre considera il cilindro di terreno coassiale al palo (avente diametro pari all'estensione in sezione della superficie di scorrimento) in parte sostenuto da tensioni tangenziali dal rimanente terreno presente lungo la superficie laterale del cilindro. Conseguentemente il valore della pressione presente alla punta del palo è inferiore alla corrispondente pressione litostatica ed è influenzata dal rapporto tra la profondità alla quale è posta la punta "L" del palo e il diametro "D" dello stesso. Quindi il valore di  $N_q$  è influenzato da questo effetto "Silo". I valori che l'autore propone sono:

se  $\phi \neq 0$  (condizione drenata) si ha:

Valori di  $N_q^*$  per pali di diametro fino a 80.0 cm.

L/D	8°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	46°	48°	50°
4	1.07	2.18	3.15	4.72	7.15	10.73	15.85	22.95	32.62	45.56	62.69	85.18	114.53	152.71	202.32	266.82	350.86	460.79	605.36
12	1.04	1.77	2.46	3.64	5.52	8.42	12.71	18.85	27.44	39.21	55.07	76.20	104.13	140.81	188.86	251.72	334.05	442.17	584.82
20	1.03	1.63	2.20	3.20	4.82	7.38	11.22	16.82	24.76	35.79	50.83	71.06	98.01	133.65	180.59	242.29	323.39	430.21	571.48
28	1.03	1.54	2.05	2.93	4.40	6.72	10.26	15.48	22.96	33.43	47.84	67.37	93.54	128.35	174.39	235.13	315.21	420.95	561.08
36	1.02	1.49	1.94	2.75	4.10	6.26	9.57	14.49	21.60	31.64	45.53	64.48	90.00	124.10	169.36	229.27	308.46	413.26	552.38
50	1.02	1.42	1.82	2.53	3.74	5.68	8.70	13.23	19.84	29.27	42.45	60.56	85.14	118.18	162.30	220.95	298.80	402.16	539.74
75	1.02	1.35	1.69	2.30	3.33	5.02	7.69	11.74	17.73	26.37	38.58	55.55	78.82	110.38	152.84	209.67	285.53	386.74	522.01
100	1.01	1.31	1.61	2.14	3.07	4.60	7.02	10.74	16.28	24.34	35.84	51.95	74.19	104.56	145.68	201.02	275.23	374.64	507.95
200	1.01	1.22	1.44	1.84	2.54	3.71	5.60	8.56	13.05	19.73	29.43	43.30	62.82	89.95	127.29	178.30	247.63	341.59	468.90
500	1.01	1.14	1.29	1.55	2.02	2.82	4.14	6.24	9.50	14.45	21.83	32.64	48.25	70.49	101.85	145.69	206.57	290.75	406.87

Valori di  $N_q^*$  per pali di diametro maggiore a 80.0 cm.

L/D	8°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	46°	48°	50°
4	1.16	3.09	3.95	5.04	6.44	8.22	10.50	13.41	17.12	21.87	27.92	35.65	45.53	58.14	74.24	94.80	121.05	154.57	197.38
12	1.21	3.14	3.98	5.05	6.42	8.14	10.34	13.13	16.68	21.18	26.90	34.17	43.41	55.15	70.07	89.03	113.13	143.77	182.72
20	1.26	3.18	4.01	5.06	6.39	8.06	10.18	12.85	16.23	20.49	25.88	32.69	41.29	52.16	65.89	83.26	105.21	132.97	168.06
28	1.30	3.22	4.04	5.07	6.36	7.99	10.02	12.57	15.78	19.81	24.86	31.20	39.17	49.16	61.72	77.49	97.29	122.16	153.40
36	1.35	3.27	4.07	5.08	6.34	7.91	9.86	12.30	15.33	19.12	23.84	29.72	37.04	46.17	57.55	71.72	89.38	111.36	138.75
44	1.39	3.31	4.10	5.09	6.31	7.83	9.70	12.02	14.88	18.43	22.81	28.23	34.92	43.18	53.38	65.95	81.46	100.56	124.09
52	1.44	3.35	4.14	5.10	6.29	7.75	9.54	11.74	14.44	17.74	21.79	26.75	32.80	40.19	49.21	60.18	73.54	89.76	109.43
56	1.46	3.37	4.15	5.10	6.27	7.71	9.46	11.60	14.21	17.40	21.28	26.00	31.74	38.70	47.12	57.30	69.58	84.36	102.10
60	1.49	3.39	4.17	5.11	6.26	7.67	9.38	11.46	13.99	17.06	20.77	25.26	30.68	37.20	45.03	54.42	65.62	78.96	94.77
65	1.51	3.42	4.19	5.12	6.25	7.62	9.28	11.29	13.71	16.63	20.13	24.33	29.35	35.33	42.43	50.81	60.67	72.21	85.61

$$N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00$$

$$N_c^* = 9.00$$

### Formulazione di Vesic per base poggiate su terreni sciolti (1975)

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = \frac{3}{3 - \sin(\phi)} \cdot \operatorname{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \cdot I_{rr}^{\frac{4 \cdot \sin(\phi)}{3 \cdot (1 + \sin(\phi))}} \cdot e^{(\frac{\pi}{2} - \phi) \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$I_{rr} = \frac{I_r}{1 + \varepsilon_v \cdot I_r} \quad \varepsilon_v = \frac{q_p \cdot \alpha}{E_t} \cdot \frac{(1 + \nu) \cdot (1 - 2 \cdot \nu)}{(1 - \nu)} \quad I_r = \frac{E_t}{2 \cdot (1 + \nu) \cdot (c + q_p \cdot \alpha \cdot \operatorname{tg}(\phi))}$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00$$

$$N_c^* = \frac{4}{3} \cdot (\log_n(I_{rr}) + 1) + \frac{\pi}{2} + 1$$

dove i simboli su riportati hanno il seguente significato:

- $E_t$  modulo elastico del terreno alla profondità della punta del palo
- $\nu$  coefficiente di Poisson del terreno alla profondità della punta del palo
- $\alpha$  coefficiente di riduzione della pressione del terreno presente alla profondità della punta del palo

Nel caso in cui si scelga di effettuare la riduzione della pressione del terreno presente alla profondità della punta del palo (cioè  $\alpha > 1$ ) il coefficiente di riduzione " $\alpha$ " assume la seguente espressione:

$$\alpha = \frac{1 + 2 \cdot K_0}{3} \quad \text{dove: se } \phi \neq 0 \Rightarrow K_0 = 1 - \sin(\phi); \quad \text{se } \phi = 0 \Rightarrow K_0 = \frac{\nu}{1 - \nu}$$

#### Formulazione di Janbu per base poggiate su terreni sciolti (1976)

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = (\operatorname{tg}(\phi) + \sqrt{1 + \operatorname{tg}^2(\phi)})^2 \cdot e^{2 \cdot \vartheta \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$\vartheta = 60 + 0.45 \cdot Dr$$

dove " $Dr$ " è la densità relativa del terreno.

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00$$

$$N_c^* = 5.74$$

#### Formulazione di Terzaghi per base poggiate su roccia (1943)

Per la determinazione del carico limite nel caso di presenza di ammasso roccioso bisogna valutare molto attentamente il grado di solidità della roccia stessa. Tale valutazione viene in genere eseguita stimando l'indice  $RQD$  (Rock Quality Designation) che rappresenta una misura della qualità di un ammasso roccioso. Tale indice può variare da un minimo di 0 (caso in cui la lunghezza dei pezzi di roccia estratti dal carotiere è inferiore a 100 mm) ad un massimo di 1 (caso in cui la carota risulta integra) ed è calcolato nel seguente modo:

$$RQD = \frac{\sum \text{lunghezze dei pezzi di roccia intatta} > 100\text{mm}}{\text{lunghezza del carotiere}}$$

Se il valore di  $RQD$  è molto basso la roccia è molto fratturata ed il calcolo della capacità portante dell'ammasso roccioso va condotto alla stregua di un terreno sciolto utilizzando tutte le formulazioni sopra descritte.

$$N_q = \frac{e^{2 \cdot \left(\frac{3\pi}{4} - \frac{\phi}{2}\right) \cdot \operatorname{tg}(\phi)}}{2 \cdot \cos^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \quad N_c = (N_q - 1) \cdot \operatorname{ctg}(\phi) \quad \text{se } \phi = 0 \Rightarrow N_c = \frac{3}{2} \cdot \pi + 1$$

$$s_q = 1.00 \quad s_c = 1.30 \quad \text{(fattori di forma)}$$

$$N_q^* = RQD^2 \cdot N_q \cdot s_q \quad N_c^* = RQD^2 \cdot N_c \cdot s_c$$

#### Formulazione di Stagg-Zienkiewicz per base poggiate su roccia (1968)

$$N_q = \operatorname{tg}^6\left(\frac{90^\circ + \phi}{2}\right) \quad N_c = 5 \cdot \operatorname{tg}^4\left(\frac{90^\circ + \phi}{2}\right)$$

$$s_q = 1.00 \quad s_c = 1.30 \quad \text{(fattori di forma)}$$

$$N_q^* = RQD^2 \cdot N_q \cdot s_q \quad N_c^* = RQD^2 \cdot N_c \cdot s_c$$

### CARICO LIMITE VERTICALE LUNGO LA SUPERFICIE LATERALE DEL PALO

Il valore del carico limite verticale lungo la superficie laterale del palo è dato dall'integrale esteso a tutta la superficie laterale del palo delle tensioni tangenziali che si sviluppano all'interfaccia palo-terreno in condizioni limite:

$$Q_L = \int_{\Gamma} \tau_{\text{lim}} \cdot d\Gamma = \int_0^L (c_a + \sigma_h \cdot \operatorname{tg}(\delta)) \cdot P_{\text{lat}} \cdot dz$$



dove i simboli sopra riportati hanno il seguente significato:

- $\chi_\alpha$  adesione all'interfaccia terreno-palo alla generica profondità "z"
- $\sigma_\eta$  tensione orizzontale alla generica profondità "z"
- $\delta$  angolo di resistenza a taglio all'interfaccia terreno-palo alla generica profondità "z"
- $\Pi_{\lambda\alpha\tau}$  perimetro della sezione trasversale del palo alla generica profondità "z"
- $A$  sviluppo longitudinale del palo

Analogamente al carico limite alla punta, anche il valore del carico limite verticale lungo la superficie laterale del palo varia notevolmente a seconda che esso sia del tipo "infisso" o "trivellato" a causa del diverso comportamento del terreno circostante in palo. Conseguentemente i parametri sopra riportati possono essere correlati da leggi diverse in funzione delle modalità di esecuzione del palo. Di seguito si descrivono quelle che sono state implementate.

L'adesione " $c_a$ " è correlata alla coesione " $c$ " nel caso di condizioni drenate; oppure alla coesione non drenata " $c_u$ " nel caso di condizioni non drenate, per mezzo del coefficiente d'adesione " $\psi$ " secondo la seguente relazione:

$$c_a = c_s \cdot \psi \quad \text{dove: } c_s = c \text{ (in condizione drenata);}$$

$$c_s = c_u \text{ (in condizione non drenata).}$$

Esprimendo il valore di " $c$ " in  $\text{N/cm}^2$ , il coefficiente d'adesione " $\psi$ " può assumere i seguenti valori:

**Caquot-Kerisel (consigliato per pali trivellati)**

$$\psi = \frac{100 + c_s^2}{100 + 7 \cdot c_s^2}$$

**Meyerhof-Murdock (consigliato per pali trivellati)**

$$\text{se } c_s \leq 5.00 \text{ N/cm}^2 \Rightarrow \psi = 1.000 - 0.100 \cdot c_s$$

$$\text{se } c_s > 5.00 \text{ N/cm}^2 \Rightarrow \psi = 0.525 - 0.005 \cdot c_s$$

**Whitaker-Cooke (consigliato per pali trivellati)**

$$\text{se } c_s \leq 2.50 \text{ N/cm}^2 \Rightarrow \psi = 0.90$$

$$\text{se } 2.50 < c_s \leq 5.00 \text{ N/cm}^2 \Rightarrow \psi = 0.80$$

$$\text{se } 5.00 < c_s \leq 7.50 \text{ N/cm}^2 \Rightarrow \psi = 0.60$$

$$\text{se } c_s > 7.50 \text{ N/cm}^2 \Rightarrow \psi = 0.40$$

**Woodward (consigliato per pali trivellati)**

$$\text{se } c_s \leq 4.00 \text{ N/cm}^2 \Rightarrow \psi = 0.90$$

$$\text{se } 4.00 < c_s \leq 8.00 \text{ N/cm}^2 \Rightarrow \psi = 0.60$$

$$\text{se } 8.00 < c_s \leq 12.00 \text{ N/cm}^2 \Rightarrow \psi = 0.50$$

$$\text{se } 12.00 < c_s \leq 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.40$$

$$\text{se } c_s > 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.30$$

**Viggiani e altri (consigliato per pali infissi)**

$$\text{se } c_s \leq 5.00 \text{ N/cm}^2 \Rightarrow \psi = 1.00$$

$$\text{se } 5.00 < c_s \leq 10.00 \text{ N/cm}^2 \Rightarrow \psi = 0.70$$

$$\text{se } 10.00 < c_s \leq 15.00 \text{ N/cm}^2 \Rightarrow \psi = 0.50$$

$$\text{se } 15.00 < c_s \leq 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.40$$

$$\text{se } c_s > 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.30$$

Il valore della tensione orizzontale " $\sigma_\eta$ " è correlato al valore della pressione verticale " $\sigma_\sigma$ " per mezzo del coefficiente di spinta orizzontale " $K_s$ " secondo la seguente relazione:

$$\sigma_h = \sigma_v \cdot K_s$$

Il valore di " $K_s$ " dipende essenzialmente dal tipo di terreno e dal suo stato d'addensamento nonché dalla tecnologia utilizzata per l'installazione.

Il programma permette di scegliere tra differenti teorie per il calcolo di  $K_s$ .

Opzione 1:

Metodo "Tomlinson (1971)"

$K_s$  può variare da un limite inferiore pari al coefficiente di spinta a riposo " $K_0$ " fino a valori prossimi al coefficiente di spinta passiva " $K_p$ "; i valori proposti sono:

pali trivellati:  $K_s = K_0 = 1 - \text{sen}(\phi)$

pali infissi:  $K_s =$  variabile da:  $K_p = 1 + \text{tg}^2(\phi)$  in sommità fino a  $K_0 = 1 - \text{sen}(\phi)$  alla punta

Opzione 2:

Metodo di "Kulhavy (1983)"

pali trivellati:  $K_s = \alpha K_0$  con  $\alpha$  variabile tra 2/3 e 1

pali infissi:  $K_s = \alpha K_0$  con  $\alpha$  variabile da 3/4, per compattazione del terreno trascurabile, fino a 2, nel caso di compattazione significativa.

Il valore dell'angolo di resistenza al taglio all'interfaccia terreno-palo " $\delta$ " è funzione della scabrezza della superficie del palo e quindi della modalità esecutiva; i valori proposti sono:

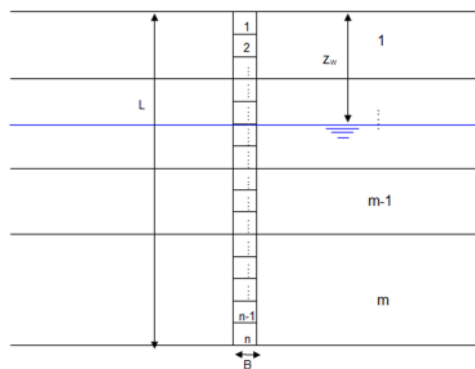
$$\delta = \arctg(\text{tg}(\phi)) \quad (\text{per pali trivellati}) \quad \delta = \arctg\left(\frac{3}{4} \cdot \text{tg}(\phi)\right) \quad (\text{per pali infissi})$$

## DETERMINAZIONE DEI CEDIMENTI DI FONDAZIONI PROFONDE

Per la determinazione del comportamento del palo singolo sottoposto a carichi applicati alla sommità, si fa riferimento all'approccio semiempirico delle curve di trasferimento (Coyle e Reese (1966)). Il metodo delle curve di trasferimento è basato su dati provenienti da prove di carico su pali strumentati; elaborando tali dati è possibile costruire le curve di trasferimento che legano la tensione tangenziale mobilitata all'interfaccia palo-terreno lungo un concio del palo con lo spostamento relativo.

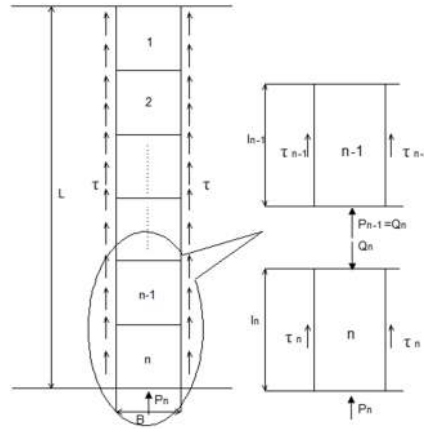
La curva di trasferimento si ottiene con una procedura che prevede i seguenti passi:

1. Suddivisione del palo in n conci



2. Definizione della resistenza limite del palo sulla base delle caratteristiche geometriche e delle caratteristiche del terreno. In presenza di terreno stratificato la resistenza sarà uguale alla sommatoria delle resistenze limite di ogni strato di terreno attraversato dal palo.
3. Si assegna all'estremità inferiore del palo (concio n) un cedimento  $W_p$ .
4. Si considera la curva di trasferimento appropriata (carico alla punta-cedimento) in base alla tecnologia costruttiva e al tipo di terreno presente e, noto il cedimento  $W_p$ , si ricava il carico alla punta  $P_n$ .





5. Si ipotizza che il cedimento alla base del concio  $W_p$  sia uguale al cedimento  $W_n$  che si verifica a metà del concio ( $W_p = W_n$ ).
6. Con il valore di  $W_n$  si entra nell'appropriata curva di trasferimento (carico laterale-cedimento) e, nota la resistenza tangenziale limite, si ricava la tensione tangenziale mobilitata.
7. Il carico  $Q_n$  agente sulla sommità del concio n-esimo è dato da:

$$Q_n = P_n + \tau_n \pi B l$$

Dove:

$$l = \frac{L}{n}$$

8. Si calcola l'abbassamento elastico in corrispondenza della metà del concio n

$$V_n = \frac{Q_n + P_n}{2} \frac{2l}{\pi B^2 E_p}$$

9. Si somma il valore calcolato di  $V_n$  con il valore di cedimento  $W_p$  ipotizzato inizialmente:

$$W_n' = V_n + W_p$$

10. Se il valore  $W_n'$  differisce in maniera significativa dal valore di  $W_n$  si riparte da passo 3 entrando nella curva di trasferimento con il valore di  $W_n'$ .
11. Quando si ottiene la giusta convergenza si passa a considerare il concio (n-1) e così via fino ad arrivare alla testa del palo.

Il risultato di questa procedura è una curva carico-cedimento con la quale è possibile ricavare i cedimenti sulla base del carico applicato.

## SIMBOLOGIA ADOTTATA NEI TABULATI DI CALCOLO

Per maggior chiarezza nella lettura dei tabulati di calcolo viene riportata la descrizione dei simboli principali utilizzati nella stesura degli stessi. Per comodità di lettura la legenda è suddivisa in paragrafi con la stessa modalità in cui sono stampati i tabulati di calcolo.

### ***Dati geometrici degli elementi costituenti le fondazioni profonde***

- X elem. ascissa nel riferimento globale dell'elemento
- Y elem. ordinata nel riferimento globale dell'elemento
- Profon. profondità del piano di posa dell'elemento a partire dal piano campagna
- Base larghezza della sezione trasversale dell'elemento
- Lungh. dimensione dello sviluppo longitudinale dell'elemento
- Altez. altezza della sezione trasversale dell'elemento
- Rotaz. rotazione dell'elemento rispetto al suo baricentro
- Grup. ap. nel caso cui l'elemento faccia parte di una palificata, rappresenta il numero identificativo della stessa
- Ind. Strat. indice della stratigrafia associata all'elemento
- Tip. iniez. tipologia d'iniezione dei micropali ai fini del calcolo della portanza secondo le raccomandazioni di Bustamante e Doix (No iniez. = assenza d'iniezione, Iniez.uni. = iniezione unica, Iniez.rip. = iniezione ripetuta)
- Tip. ter. tipologia di terreno ai fini del calcolo della portanza secondo le raccomandazioni di Bustamante e Doix (Coes. = coesivo, Inc. = incoerente)
- Dia. P. diametro fusto del palo
- Lun. P. lunghezza totale del palo
- Lun. L. lunghezza tratto del palo senza contributo di terreno
- Dis. P. distanza del baricentro del palo dal bordo del plinto
- In. Px interasse principale del palo
- In. Py interasse secondario del palo
- Dia. B. diametro bulbo del palo
- Lun. B. lunghezza della sbulbatura del palo
- E.C.V. coefficiente d'efficienza per carico limite verticale del singolo palo
- E.C.C. coefficiente d'efficienza per carico critico verticale del singolo palo
- E.C.T. coefficiente d'efficienza per carico limite trasversale del singolo palo
- Svin. testa codice di svincolo alla rotazione in testa al palo (0 = non attivo, 1 = attivo)
- Vin. piede codici di vincolo rispettivamente alla rotazione orizzontale, traslazione orizzontale e traslazione verticale applicabili al piede del palo (0 = non attivo, 1 = attivo)
- Asc. X' ascissa del baricentro del singolo palo dell'elemento nel riferimento locale con origine nel baricentro del plinto
- Asc. Y' ordinata del baricentro del singolo palo dell'elemento nel riferimento locale con origine nel baricentro del plinto
- Peso spec. peso specifico del palo
- Mod. El. Pa. modulo elastico normale del palo

### ***Dati di carico degli elementi costituenti le fondazioni profonde***

- Cmb numero della combinazione di carico
- Tipologia tipologia della combinazione di carico
- Sismica flag per l'applicazione della riduzione sismica alle caratteristiche meccaniche del terreno di fondazione per la combinazione di carico in esame
- S. Normale sollecitazione normale agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Tagliante X' sollecitazione tagliante lungo l'asse X' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Tagliante Y' sollecitazione tagliante lungo l'asse Y' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Flessionale X' sollecitazione flessionale lungo l'asse X' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Flessionale Y' sollecitazione flessionale lungo l'asse Y' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Torsionale sollecitazione torsionale agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)

### **Valori di calcolo per le fondazioni profonde**

- Port. punta carico limite verticale alla punta del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Port. lat. carico limite verticale lungo la superficie laterale del fusto del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Port. bulbo carico limite verticale lungo la superficie laterale del bulbo del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- C. Critico carico critico per l'instabilità del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Attr. Neg. attrito negativo agente sul palo (valore su singolo palo)
- Peso Palo peso totale del singolo palo
- Cmb numero e tipologia della combinazione di carico
- S. Norm. sollecitazione normale agente alla testa del palo in esame
- V. V. Com. resistenza a compressione del palo in esame (corretto dal relativo coefficiente di sicurezza)
- V. V. Tra. resistenza a trazione del palo in esame (corretto dal relativo coefficiente di sicurezza)
- Ver. Com. rapporto tra la sollecitazione normale agente alla testa del palo e la sua resistenza a compressione (verifica positiva se il rapporto è  $< 1.0$ )
- Ver. Tra. rapporto tra la sollecitazione normale agente alla testa del palo e la sua resistenza a trazione (verifica positiva se il rapporto è  $< 1.0$ )
- S. Tagl. sollecitazione tagliante agente alla testa del palo
- S. Fles. sollecitazione flessionale agente alla testa del palo
- V. V. Trs. resistenza trasversale del palo in esame (corretto dal relativo coefficiente di sicurezza)
- Ver. Tra. rapporto tra la sollecitazione tagliante agente alla testa del palo e la sua resistenza trasversale (verifica positiva se il rapporto è  $< 1.0$ )
- Ced. V. cedimento verticale in corrispondenza della testa del palo
- Ced. H. cedimento orizzontale in corrispondenza della testa del palo

### **PARAMETRI DI CALCOLO**

#### **Modalità di calcolo della portanza verticale per fondazioni profonde:**

Per elementi con pali: Portanza di punta e laterale

Per elementi con micropali: Portanza di punta e laterale

#### **Metodi di calcolo della portanza di punta per fondazioni profonde:**

Per terreni sciolti: Meyerhof

Per terreni lapidei: Terzaghi

Riduzione di Kishida per pali battuti o trivellati: Sì

Metodo di calcolo del coefficiente di spinta orizzontale  $K_s$ : Tomlinson

#### **Coefficienti parziali e totali di sicurezza per Tensioni Ammissibili e S.L.E. nel calcolo della portanza per fondazioni profonde:**

Coeff. di sicurezza alla punta: 2,60

Coeff. di sicurezza lungo il fusto: 2,60

Coeff. di sicurezza lungo il bulbo: 2,60

Coeff. di sicurezza per palo in trazione: 2,60

#### **Combinazioni di carico:**

##### **APPROCCIO PROGETTUALE TIPO 2 - Comb. (A1+M1+R3)**

Coefficienti parziali e totali di sicurezza per S.L.U. nel calcolo della portanza per pali trivellati:

I coeff. A1 risultano combinati secondo lo schema presente nella relazione di calcolo della struttura.

- Coeff. M1 per  $\tan \phi$  (statico): 1

- Coeff. M1 per  $c'$  (statico): 1

- Coeff. M1 per  $C_u$  (statico): 1

- Coeff. M1 per  $\tan \phi$  (sismico): 1

- Coeff. M1 per  $c'$  (sismico): 1

- Coeff. M1 per  $C_u$  (sismico): 1

- Coeff. R3 base: 1,35

- Coeff. R3 laterale in compressione: 1,15

- Coeff. R3 laterale in trazione: 1,25

Fattore di correlazione: 1,70

## ARCHIVIO STRATIGRAFIE

Indice / Descrizione: 001 / Nuova stratigrafia n. 1

Numero strati: 1

Profondità falda: assente

Strato n.	Quota di riferimento	Spessore	Indice / Descrizione terreno	Attrito Neg.
1	da 0,0 a -10000,0 cm	10000,0 cm	001 / Limo argilloso	Assente

## ARCHIVIO TERRENI

Indice / Descrizione terreno: 001 / Limo argilloso

Comportamento del terreno: condizione non drenata

Peso Spec.	P. Spec. Sat.	Coef. non dren.	Mod. Elast.	Mod. Edom.	Dens. Rel.	Poisson	C. Ades.
daN/cm <sup>3</sup>	daN/cm <sup>3</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	%	%	
1,980 E-3	2,200 E-3	0,600	100,000	100,000	60,0	0,500	0,70

## DATI GEOMETRICI DEGLI ELEMENTI COSTITUENTI LE FONDAZIONI PROFONDE

### Elemento: 1 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.					
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.					
51,0	1168,9	0,0	0,0	0,0	0,0	0,00	1	001					
Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede	
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
Palo	Asc. X'	Ord. Y'											
n.	cm	cm											
1	0,0	0,0											

### Elemento: 2 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.					
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.					
447,7	1080,9	0,0	0,0	0,0	0,0	0,00	2	001					
Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede	
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
Palo	Asc. X'	Ord. Y'											
n.	cm	cm											
1	0,0	0,0											

### Elemento: 3 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.					
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.					
790,4	862,6	0,0	0,0	0,0	0,0	0,00	3	001					
Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede	
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
Palo	Asc. X'	Ord. Y'											
n.	cm	cm											
1	0,0	0,0											

### Elemento: 4 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.					
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.					
1037,8	540,2	0,0	0,0	0,0	0,0	0,00	4	001					
Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede	
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
Palo	Asc. X'	Ord. Y'											
n.	cm	cm											
1	0,0	0,0											

### Elemento: 5 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.

1160,0	152,7	0,0	0,0	0,0	0,0	0,00	5	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 6 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
1142,3	-253,2	0,0	0,0	0,0	0,0	0,00	6	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 7 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
803,1	-105,7	0,0	0,0	0,0	0,0	0,00	7	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 8 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
748,3	310,0	0,0	0,0	0,0	0,0	0,00	8	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 9 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
493,1	642,6	0,0	0,0	0,0	0,0	0,00	9	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 10 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
105,7	803,1	0,0	0,0	0,0	0,0	0,00	10	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 11 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
0,0	450,0	0,0	0,0	0,0	0,0	0,00	11	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 12 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
318,2	318,2	0,0	0,0	0,0	0,0	0,00	12	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 13 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
450,0	0,0	0,0	0,0	0,0	0,0	0,00	13	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 14 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
318,2	-318,2	0,0	0,0	0,0	0,0	0,00	14	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 15 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
642,6	-493,1	0,0	0,0	0,0	0,0	0,00	15	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 16 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
986,8	-628,6	0,0	0,0	0,0	0,0	0,00	16	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 17 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
0,0	-450,0	0,0	0,0	0,0	0,0	0,00	17	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 18 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-105,7	-803,1	0,0	0,0	0,0	0,0	0,00	18	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice

100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 19 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
310,0 -748,3 0,0 0,0 0,0 0,0 0,00 19 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 20 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
712,3 -928,2 0,0 0,0 0,0 0,0 0,00 20 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 21 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
351,8 -1115,8 0,0 0,0 0,0 0,0 0,00 21 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 22 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-51,0 -1168,9 0,0 0,0 0,0 0,0 0,00 22 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 23 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-447,7 -1080,9 0,0 0,0 0,0 0,0 0,00 23 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 24 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-790,4 -862,6 0,0 0,0 0,0 0,0 0,00 24 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 25 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.





1 0,0 0,0

**Elemento: 32 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-318,2	318,2	0,0	0,0	0,0	0,0	0,00	32	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 33 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-642,6	493,1	0,0	0,0	0,0	0,0	0,00	33	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 34 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-986,8	628,6	0,0	0,0	0,0	0,0	0,00	34	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 35 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-1142,3	253,2	0,0	0,0	0,0	0,0	0,00	35	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 36 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-712,3	928,2	0,0	0,0	0,0	0,0	0,00	36	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 37 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-310,0	748,3	0,0	0,0	0,0	0,0	0,00	37	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 38 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-351,8	1115,8	0,0	0,0	0,0	0,0	0,00	38	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
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cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

<b>Palo</b>	<b>Asc. X'</b>	<b>Ord. Y'</b>
n.	cm	cm
1	0,0	0,0

**Elemento: Palo n. 1**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-148300.0	5168.3	3246.1	1682000.0	14160000.0
002	SLU STR	No	-145800.0	972.0	3193.7	1654000.0	2120000.0
003	SLE freq	No	-124100.0	3589.5	3016.5	1563000.0	10410000.0
004	SLE q.p.	No	-124100.0	2927.7	3023.3	1566000.0	9164000.0
005	SLU STR	No	-148300.0	5126.3	3246.2	1682000.0	14180000.0
006	SLU STR	No	-144500.0	1128.4	3117.1	1615000.0	3285000.0
007	SLU STR	No	-124800.0	3580.1	3045.3	1578000.0	12020000.0

**Elemento: Palo n. 2**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-178600.0	6720.4	4007.3	2074000.0	13360000.0
002	SLU STR	No	-150500.0	2116.2	3113.2	1612000.0	1528000.0
003	SLE freq	No	-146300.0	4941.9	3526.7	1826000.0	9712000.0
004	SLE q.p.	No	-143500.0	4240.9	3442.7	1782000.0	8484000.0
005	SLU STR	No	-178600.0	6678.8	4008.1	2075000.0	13380000.0
006	SLU STR	No	-151500.0	2283.4	3121.3	1617000.0	2687000.0
007	SLU STR	No	-150100.0	4991.7	3659.6	1895000.0	11290000.0

**Elemento: Palo n. 3**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-204800.0	8530.7	3863.9	1999000.0	12420000.0
002	SLU STR	No	-154600.0	3191.3	2592.0	1342000.0	971100.0
003	SLE freq	No	-165400.0	6457.1	3303.8	1710000.0	8928000.0
004	SLE q.p.	No	-160200.0	5681.0	3177.2	1644000.0	7739000.0
005	SLU STR	No	-204800.0	8489.7	3865.1	2000000.0	12440000.0
006	SLU STR	No	-157600.0	3402.6	2650.3	1372000.0	2108000.0
007	SLU STR	No	-171900.0	6605.1	3480.0	1801000.0	10450000.0

**Elemento: Palo n. 4**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-223600.0	10260.0	2723.3	1409000.0	11530000.0
002	SLU STR	No	-157500.0	4030.2	1658.1	858700.0	536900.0
003	SLE freq	No	-179200.0	7862.1	2289.9	1185000.0	8202000.0
004	SLE q.p.	No	-172300.0	6993.3	2181.9	1129000.0	7060000.0
005	SLU STR	No	-223700.0	10220.0	2724.3	1409000.0	11540000.0
006	SLU STR	No	-162000.0	4307.8	1719.9	890700.0	1639000.0
007	SLU STR	No	-187700.0	8127.4	2434.0	1259000.0	9666000.0

**Elemento: Palo n. 5**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-233000.0	11190.0	775.8	401400.0	11050000.0
002	SLU STR	No	-159000.0	4464.7	467.6	242300.0	312100.0
003	SLE freq	No	-186100.0	8612.2	652.2	337500.0	7814000.0
004	SLE q.p.	No	-178300.0	7691.6	620.8	321300.0	6699000.0
005	SLU STR	No	-233000.0	11150.0	776.1	401500.0	11060000.0
006	SLU STR	No	-164100.0	4779.9	485.5	251500.0	1395000.0
007	SLU STR	No	-195400.0	8942.0	693.6	358900.0	9245000.0

**Elemento: Palo n. 6**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-231600.0	11050.0	-1315.0	-679700.0	11120000.0
002	SLU STR	No	-158800.0	4405.2	-793.3	-410400.0	342900.0
003	SLE freq	No	-185100.0	8499.0	-1102.3	-569900.0	7873000.0
004	SLE q.p.	No	-177400.0	7586.9	-1049.3	-542600.0	6754000.0
005	SLU STR	No	-231700.0	11010.0	-1315.4	-679900.0	11140000.0
006	SLU STR	No	-163800.0	4714.0	-824.1	-426400.0	1429000.0
007	SLU STR	No	-194300.0	8818.1	-1172.5	-606300.0	9310000.0

**Elemento: Palo n. 7**

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-208200.0	10210.0	-846.1	-437200.0	11550000.0

002	SLU STR	No	-156300.0	4269.1	-485.6	-251100.0	413900.0
003	SLE freq	No	-168200.0	7888.2	-703.6	-363700.0	8190000.0
004	SLE q.p.	No	-162800.0	7050.2	-666.6	-344600.0	7033000.0
005	SLU STR	No	-208200.0	10170.0	-846.5	-437400.0	11570000.0
006	SLU STR	No	-159400.0	4510.1	-508.4	-262900.0	1535000.0
007	SLU STR	No	-174900.0	8116.3	-751.5	-388500.0	9674000.0

**Elemento: Palo n. 8**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-204000.0	9600.5	2387.8	1235000.0	11870000.0
002	SLU STR	No	-155600.0	3988.7	1384.0	716700.0	558900.0
003	SLE freq	No	-165100.0	7394.5	1993.2	1031000.0	8445000.0
004	SLE q.p.	No	-160100.0	6591.4	1890.6	978500.0	7270000.0
005	SLU STR	No	-204000.0	9559.5	2388.6	1236000.0	11890000.0
006	SLU STR	No	-158400.0	4204.5	1446.2	748900.0	1693000.0
007	SLU STR	No	-171400.0	7579.8	2127.3	1101000.0	9952000.0

**Elemento: Palo n. 9**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-184100.0	6943.7	4111.2	2127000.0	13250000.0
002	SLU STR	No	-152500.0	2739.2	2746.4	1422000.0	1206000.0
003	SLE freq	No	-150600.0	5247.2	3517.8	1821000.0	9556000.0
004	SLE q.p.	No	-147400.0	4590.6	3381.7	1750000.0	8305000.0
005	SLU STR	No	-184100.0	6901.5	4112.4	2128000.0	13260000.0
006	SLU STR	No	-153800.0	2849.7	2808.7	1454000.0	2394000.0
007	SLU STR	No	-154800.0	5249.2	3706.2	1918000.0	11160000.0

**Elemento: Palo n. 10**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-153900.0	4232.0	3520.6	1823000.0	14650000.0
002	SLU STR	No	-147800.0	1048.5	3184.5	1649000.0	2081000.0
003	SLE freq	No	-128500.0	2955.6	3210.9	1663000.0	10740000.0
004	SLE q.p.	No	-128100.0	2402.2	3187.4	1651000.0	9437000.0
005	SLU STR	No	-154000.0	4188.9	3520.9	1823000.0	14670000.0
006	SLU STR	No	-146800.0	1102.8	3135.1	1624000.0	3299000.0
007	SLU STR	No	-129700.0	2819.0	3275.2	1696000.0	12410000.0

**Elemento: Palo n. 11**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-146800.0	1120.0	1206.2	625300.0	16260000.0
002	SLU STR	No	-147700.0	221.7	1223.7	634100.0	2510000.0
003	SLE freq	No	-123500.0	589.9	1130.5	586000.0	11970000.0
004	SLE q.p.	No	-123800.0	277.6	1137.2	589400.0	10540000.0
005	SLU STR	No	-146800.0	1074.6	1206.2	625300.0	16280000.0
006	SLU STR	No	-145900.0	72.3	1190.6	617000.0	3833000.0
007	SLU STR	No	-123800.0	160.3	1136.9	589300.0	13790000.0

**Elemento: Palo n. 12**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-172200.0	2166.4	1118.7	579300.0	15720000.0
002	SLU STR	No	-151600.0	1113.3	902.9	467800.0	2048000.0
003	SLE freq	No	-142000.0	1529.7	993.1	514300.0	11480000.0
004	SLE q.p.	No	-140100.0	1204.2	973.2	504100.0	10060000.0
005	SLU STR	No	-172200.0	2121.2	1118.9	579400.0	15740000.0
006	SLU STR	No	-151800.0	956.2	900.6	466700.0	3375000.0
007	SLU STR	No	-145000.0	1125.4	1025.7	531200.0	13290000.0

**Elemento: Palo n. 13**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-182700.0	2892.4	-5.6	-2392.9	15350000.0
002	SLU STR	No	-153200.0	1529.8	-3.0	-1246.2	1833000.0
003	SLE freq	No	-149700.0	2133.8	-4.4	-1880.5	11170000.0
004	SLE q.p.	No	-146800.0	1776.5	-4.1	-1757.8	9764000.0
005	SLU STR	No	-182700.0	2847.4	-5.6	-2393.4	15370000.0
006	SLU STR	No	-154300.0	1392.0	-3.2	-1336.3	3150000.0
007	SLU STR	No	-153800.0	1770.3	-4.7	-2022.4	12960000.0

**Elemento: Palo n. 14**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
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001	SLU STR	No	-172200.0	2167.6	-1125.2	-581500.0	15720000.0
002	SLU STR	No	-151600.0	1114.3	-905.5	-468500.0	2048000.0
003	SLE freq	No	-142100.0	1530.5	-997.9	-516000.0	11480000.0
004	SLE q.p.	No	-140100.0	1205.0	-977.7	-505600.0	10060000.0
005	SLU STR	No	-172200.0	2122.4	-1125.3	-581600.0	15740000.0
006	SLU STR	No	-151800.0	957.2	-903.6	-467500.0	3375000.0
007	SLU STR	No	-145000.0	1126.3	-1031.1	-533100.0	13290000.0

**Elemento: Palo n. 15**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-195700.0	8378.3	-3529.7	-1825000.0	12500000.0
002	SLU STR	No	-154300.0	3463.0	-2164.2	-1120000.0	831100.0
003	SLE freq	No	-159100.0	6416.9	-2974.2	-1538000.0	8951000.0
004	SLE q.p.	No	-154800.0	5686.5	-2835.7	-1467000.0	7738000.0
005	SLU STR	No	-195800.0	8336.7	-3530.9	-1826000.0	12520000.0
006	SLU STR	No	-156500.0	3624.3	-2241.6	-1160000.0	1994000.0
007	SLU STR	No	-164500.0	6511.7	-3158.6	-1634000.0	10500000.0

**Elemento: Palo n. 16**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-219700.0	9858.9	-3085.4	-1595000.0	11740000.0
002	SLU STR	No	-156900.0	3862.0	-1922.8	-995200.0	624100.0
003	SLE freq	No	-176400.0	7538.6	-2604.4	-1347000.0	8369000.0
004	SLE q.p.	No	-169800.0	6694.4	-2486.9	-1287000.0	7215000.0
005	SLU STR	No	-219800.0	9818.5	-3086.4	-1596000.0	11750000.0
006	SLU STR	No	-161100.0	4120.8	-1987.3	-1029000.0	1736000.0
007	SLU STR	No	-184400.0	7772.9	-2762.3	-1429000.0	9850000.0

**Elemento: Palo n. 17**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-146800.0	1118.2	-1209.6	-625800.0	16270000.0
002	SLU STR	No	-147700.0	223.0	-1222.9	-633000.0	2509000.0
003	SLE freq	No	-123500.0	588.9	-1132.3	-585900.0	11970000.0
004	SLE q.p.	No	-123800.0	277.0	-1138.5	-589200.0	10540000.0
005	SLU STR	No	-146800.0	1072.8	-1209.6	-625800.0	16290000.0
006	SLU STR	No	-145900.0	73.3	-1190.2	-616000.0	3833000.0
007	SLU STR	No	-123800.0	159.1	-1139.3	-589500.0	13790000.0

**Elemento: Palo n. 18**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-137500.0	3427.9	-2625.1	-1359000.0	15070000.0
002	SLU STR	No	-145300.0	231.3	-3045.3	-1577000.0	2504000.0
003	SLE freq	No	-116500.0	2201.1	-2554.2	-1322000.0	11130000.0
004	SLE q.p.	No	-117600.0	1643.0	-2611.5	-1352000.0	9831000.0
005	SLU STR	No	-137500.0	3384.9	-2624.8	-1359000.0	15080000.0
006	SLU STR	No	-143000.0	308.0	-2925.6	-1515000.0	3710000.0
007	SLU STR	No	-116000.0	2060.3	-2523.8	-1307000.0	12810000.0

**Elemento: Palo n. 19**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-169800.0	5452.4	-4068.8	-2105000.0	14020000.0
002	SLU STR	No	-150300.0	1907.8	-3087.6	-1598000.0	1636000.0
003	SLE freq	No	-140100.0	4010.7	-3569.9	-1847000.0	10200000.0
004	SLE q.p.	No	-138300.0	3421.9	-3476.5	-1799000.0	8910000.0
005	SLU STR	No	-169900.0	5409.6	-4069.7	-2105000.0	14040000.0
006	SLU STR	No	-150500.0	1975.2	-3103.6	-1606000.0	2847000.0
007	SLU STR	No	-142900.0	3925.0	-3713.3	-1921000.0	11840000.0

**Elemento: Palo n. 20**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-198800.0	8136.8	-3986.7	-2062000.0	12630000.0
002	SLU STR	No	-153700.0	2954.3	-2757.3	-1427000.0	1094000.0
003	SLE freq	No	-161000.0	6125.1	-3428.9	-1774000.0	9100000.0
004	SLE q.p.	No	-156400.0	5365.2	-3307.5	-1711000.0	7903000.0
005	SLU STR	No	-198800.0	8095.7	-3987.8	-2063000.0	12640000.0
006	SLU STR	No	-156200.0	3156.9	-2807.1	-1453000.0	2235000.0
007	SLU STR	No	-166900.0	6252.5	-3601.0	-1863000.0	10640000.0

**Elemento: Palo n. 21**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
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n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-171300.0	6233.2	-3860.1	-1997000.0	13610000.0
002	SLU STR	No	-149400.0	1827.2	-3164.3	-1638000.0	1677000.0
003	SLE freq	No	-140900.0	4533.7	-3437.4	-1779000.0	9923000.0
004	SLE q.p.	No	-138800.0	3852.7	-3375.0	-1747000.0	8685000.0
005	SLU STR	No	-171300.0	6191.4	-3860.7	-1998000.0	13630000.0
006	SLU STR	No	-149800.0	1982.2	-3151.4	-1632000.0	2843000.0
007	SLU STR	No	-144000.0	4556.4	-3546.0	-1835000.0	11510000.0

**Elemento: Palo n. 22**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-140500.0	4878.1	-3021.2	-1564000.0	14310000.0
002	SLU STR	No	-144600.0	675.8	-3158.2	-1635000.0	2274000.0
003	SLE freq	No	-118400.0	3319.0	-2851.6	-1477000.0	10550000.0
004	SLE q.p.	No	-119100.0	2655.4	-2878.8	-1491000.0	9305000.0
005	SLU STR	No	-140500.0	4836.1	-3021.2	-1564000.0	14330000.0
006	SLU STR	No	-142700.0	840.1	-3064.1	-1587000.0	3434000.0
007	SLU STR	No	-118300.0	3308.3	-2857.0	-1479000.0	12160000.0

**Elemento: Palo n. 23**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-110200.0	4326.0	-1800.0	-933200.0	14600000.0
002	SLU STR	No	-139900.0	-313.1	-2771.6	-1435000.0	2786000.0
003	SLE freq	No	-96230.0	2700.2	-1907.9	-988700.0	10870000.0
004	SLE q.p.	No	-99700.0	1985.9	-2023.2	-1048000.0	9652000.0
005	SLU STR	No	-110200.0	4284.3	-1799.2	-932700.0	14620000.0
006	SLU STR	No	-135600.0	-80.5	-2605.9	-1350000.0	3911000.0
007	SLU STR	No	-93070.0	2737.2	-1806.6	-936200.0	12460000.0

**Elemento: Palo n. 24**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-84050.0	4284.0	-782.2	-406600.0	14620000.0
002	SLU STR	No	-135900.0	-1114.9	-2115.1	-1095000.0	3201000.0
003	SLE freq	No	-77090.0	2481.4	-1043.9	-541700.0	10990000.0
004	SLE q.p.	No	-82960.0	1682.1	-1195.6	-619900.0	9811000.0
005	SLU STR	No	-84020.0	4243.0	-781.1	-406000.0	14640000.0
006	SLU STR	No	-129600.0	-787.8	-1930.8	-1000000.0	4278000.0
007	SLU STR	No	-71250.0	2606.6	-893.3	-463600.0	12530000.0

**Elemento: Palo n. 25**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-107300.0	3179.7	-804.1	-417500.0	15200000.0
002	SLU STR	No	-140600.0	-1078.4	-2234.9	-1157000.0	3183000.0
003	SLE freq	No	-94400.0	1715.9	-1093.1	-566700.0	11380000.0
004	SLE q.p.	No	-98260.0	1038.4	-1256.1	-651000.0	10140000.0
005	SLU STR	No	-107300.0	3137.5	-802.9	-416800.0	15210000.0
006	SLU STR	No	-136000.0	-864.1	-2037.4	-1055000.0	4318000.0
007	SLU STR	No	-90810.0	1697.4	-931.9	-483300.0	13000000.0

**Elemento: Palo n. 26**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-121400.0	465.3	-580.9	-300700.0	16600000.0
002	SLU STR	No	-143700.0	-611.6	-819.7	-424200.0	2942000.0
003	SLE freq	No	-104900.0	-63.8	-599.1	-310100.0	12310000.0
004	SLE q.p.	No	-107600.0	-398.6	-628.2	-325100.0	10890000.0
005	SLU STR	No	-121400.0	420.0	-580.7	-300600.0	16620000.0
006	SLU STR	No	-140000.0	-722.3	-775.5	-401300.0	4245000.0
007	SLU STR	No	-102700.0	-477.4	-575.7	-297900.0	14120000.0

**Elemento: Palo n. 27**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-87470.0	3882.7	23.5	11690.0	14830000.0
002	SLU STR	No	-137500.0	-1808.8	-1011.0	-523400.0	3561000.0
003	SLE freq	No	-79860.0	2032.0	-225.3	-117000.0	11220000.0
004	SLE q.p.	No	-85540.0	1197.3	-340.8	-176600.0	10060000.0
005	SLU STR	No	-87450.0	3841.7	24.3	12140.0	14850000.0
006	SLU STR	No	-131300.0	-1435.6	-883.8	-457500.0	4614000.0
007	SLU STR	No	-74240.0	2185.9	-104.5	-54350.0	12740000.0

**Elemento: Palo n. 28**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-65160.0	4686.8	-159.7	-83660.0	14420000.0
002	SLU STR	No	-132900.0	-1623.3	-1261.6	-653300.0	3465000.0
003	SLE freq	No	-63260.0	2643.0	-409.8	-212900.0	10900000.0
004	SLE q.p.	No	-70870.0	1743.7	-533.2	-276600.0	9779000.0
005	SLU STR	No	-65130.0	4646.6	-158.7	-83150.0	14430000.0
006	SLU STR	No	-125200.0	-1194.1	-1121.4	-580700.0	4489000.0
007	SLU STR	No	-55490.0	2878.0	-281.7	-146500.0	12390000.0

**Elemento: Palo n. 29**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-55830.0	4950.4	-35.8	-18100.0	14280000.0
002	SLU STR	No	-131500.0	-1870.8	-355.0	-183500.0	3593000.0
003	SLE freq	No	-56440.0	2769.1	-109.8	-56500.0	10840000.0
004	SLE q.p.	No	-64890.0	1813.9	-145.6	-75040.0	9744000.0
005	SLU STR	No	-55790.0	4910.7	-35.5	-17960.0	14300000.0
006	SLU STR	No	-123000.0	-1385.4	-314.7	-162600.0	4588000.0
007	SLU STR	No	-47710.0	3065.8	-72.9	-37330.0	12290000.0

**Elemento: Palo n. 30**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-83210.0	4063.0	-24.1	-11020.0	14740000.0
002	SLU STR	No	-136900.0	-1966.2	350.4	181900.0	3643000.0
003	SLE freq	No	-76740.0	2120.2	65.5	34980.0	11180000.0
004	SLE q.p.	No	-82810.0	1248.3	107.2	56460.0	10040000.0
005	SLU STR	No	-83180.0	4022.3	-24.4	-11180.0	14760000.0
006	SLU STR	No	-130300.0	-1556.2	305.0	158500.0	4676000.0
007	SLU STR	No	-70680.0	2314.4	21.6	12340.0	12680000.0

**Elemento: Palo n. 31**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-110900.0	483.3	-3.5	-1003.0	16600000.0
002	SLU STR	No	-142100.0	-913.0	0.3	541.4	3098000.0
003	SLE freq	No	-97250.0	-122.5	-2.4	-628.8	12340000.0
004	SLE q.p.	No	-100900.0	-493.1	-2.0	-461.3	10940000.0
005	SLU STR	No	-110900.0	438.2	-3.5	-1004.2	16620000.0
006	SLU STR	No	-137600.0	-984.9	-0.1	386.3	4381000.0
007	SLU STR	No	-93920.0	-499.1	-2.9	-817.7	14140000.0

**Elemento: Palo n. 32**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-121400.0	471.3	575.3	299400.0	16600000.0
002	SLU STR	No	-143700.0	-612.3	816.2	423200.0	2942000.0
003	SLE freq	No	-104900.0	-59.6	594.7	309000.0	12310000.0
004	SLE q.p.	No	-107600.0	-395.2	624.0	324100.0	10890000.0
005	SLU STR	No	-121400.0	426.0	575.2	299300.0	16620000.0
006	SLU STR	No	-140000.0	-722.3	771.9	400300.0	4245000.0
007	SLU STR	No	-102700.0	-472.4	571.0	296800.0	14120000.0

**Elemento: Palo n. 33**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-95700.0	3437.6	238.1	126100.0	15060000.0
002	SLU STR	No	-138800.0	-1542.6	1657.2	858900.0	3423000.0
003	SLE freq	No	-85880.0	1786.8	561.1	292600.0	11350000.0
004	SLE q.p.	No	-90810.0	1029.6	720.5	374800.0	10150000.0
005	SLU STR	No	-95680.0	3396.0	236.9	125500.0	15080000.0
006	SLU STR	No	-133300.0	-1246.2	1475.7	765000.0	4516000.0
007	SLU STR	No	-81100.0	1854.1	397.3	207900.0	12920000.0

**Elemento: Palo n. 34**

Cmb n.	Tipo	Sism.	N daN	Tx daN	Ty daN	Mx daN cm	My daN cm
001	SLU STR	No	-69050.0	4593.2	282.2	149400.0	14460000.0
002	SLU STR	No	-133500.0	-1525.4	1492.2	773600.0	3414000.0
003	SLE freq	No	-66110.0	2602.2	548.4	286300.0	10930000.0
004	SLE q.p.	No	-73350.0	1724.0	684.3	356400.0	9789000.0
005	SLU STR	No	-69020.0	4552.9	281.2	148900.0	14480000.0
006	SLU STR	No	-126100.0	-1117.6	1335.8	692800.0	4449000.0
007	SLU STR	No	-58740.0	2814.4	408.6	214000.0	12420000.0

**Elemento: Palo n. 35**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-57180.0	4911.2	49.3	27630.0	14300000.0
002	SLU STR	No	-131700.0	-1834.5	596.2	309400.0	3574000.0
003	SLE freq	No	-57420.0	2750.2	174.5	91880.0	10850000.0
004	SLE q.p.	No	-65760.0	1803.3	235.7	123400.0	9749000.0
005	SLU STR	No	-57140.0	4871.4	48.8	27390.0	14320000.0
006	SLU STR	No	-123300.0	-1357.4	527.7	274000.0	4573000.0
007	SLU STR	No	-48840.0	3037.8	110.8	59010.0	12300000.0

**Elemento: Palo n. 36**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-90010.0	4293.4	997.1	519700.0	14620000.0
002	SLU STR	No	-136800.0	-939.9	2294.3	1189000.0	3111000.0
003	SLE freq	No	-81450.0	2531.8	1236.4	642700.0	10960000.0
004	SLE q.p.	No	-86770.0	1751.2	1385.0	719300.0	9774000.0
005	SLU STR	No	-89990.0	4252.3	996.0	519100.0	14630000.0
006	SLU STR	No	-130900.0	-633.6	2108.9	1093000.0	4198000.0
007	SLU STR	No	-76220.0	2638.3	1091.5	567700.0	12510000.0

**Elemento: Palo n. 37**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-121600.0	3087.5	1647.7	855400.0	15240000.0
002	SLU STR	No	-142800.0	-496.2	2714.0	1406000.0	2881000.0
003	SLE freq	No	-104800.0	1791.2	1794.5	930800.0	11340000.0
004	SLE q.p.	No	-107400.0	1188.6	1920.1	995700.0	10070000.0
005	SLU STR	No	-121600.0	3044.7	1646.8	855000.0	15260000.0
006	SLU STR	No	-139300.0	-363.0	2539.7	1316000.0	4058000.0
007	SLU STR	No	-102700.0	1693.2	1681.8	872500.0	13000000.0

**Elemento: Palo n. 38**

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-117500.0	4334.3	2094.7	1087000.0	14590000.0
002	SLU STR	No	-141100.0	-97.0	2891.9	1498000.0	2674000.0
003	SLE freq	No	-101600.0	2757.4	2142.9	1111000.0	10840000.0
004	SLE q.p.	No	-104400.0	2066.1	2240.0	1162000.0	9610000.0
005	SLU STR	No	-117500.0	4292.5	2094.1	1087000.0	14610000.0
006	SLU STR	No	-137300.0	109.5	2740.0	1420000.0	3813000.0
007	SLU STR	No	-99180.0	2769.6	2064.3	1071000.0	12440000.0

**VALORI DI CALCOLO DELLA PORTANZA PER FONDAZIONI PROFONDE****Elemento: 1 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-148300.0	-252581.1	0,587	Ok
002	SLU STR	1	0.000	0.000	-145800.0	-252581.1	0,577	Ok
005	SLU STR	1	0.000	0.000	-148300.0	-252581.1	0,587	Ok
006	SLU STR	1	0.000	0.000	-144500.0	-252581.1	0,572	Ok
007	SLU STR	1	0.000	0.000	-124800.0	-252581.1	0,494	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 2 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-178600.0	-252581.1	0,707	Ok
002	SLU STR	1	0.000	0.000	-150500.0	-252581.1	0,596	Ok
005	SLU STR	1	0.000	0.000	-178600.0	-252581.1	0,707	Ok
006	SLU STR	1	0.000	0.000	-151500.0	-252581.1	0,600	Ok
007	SLU STR	1	0.000	0.000	-150100.0	-252581.1	0,594	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 3 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-204800.0	-252581.1	0,811	Ok
002	SLU STR	1	0.000	0.000	-154600.0	-252581.1	0,612	Ok
005	SLU STR	1	0.000	0.000	-204800.0	-252581.1	0,811	Ok
006	SLU STR	1	0.000	0.000	-157600.0	-252581.1	0,624	Ok
007	SLU STR	1	0.000	0.000	-171900.0	-252581.1	0,681	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 4 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-223600.0	-252581.1	0,885	Ok
002	SLU STR	1	0.000	0.000	-157500.0	-252581.1	0,624	Ok
005	SLU STR	1	0.000	0.000	-223700.0	-252581.1	0,886	Ok
006	SLU STR	1	0.000	0.000	-162000.0	-252581.1	0,641	Ok
007	SLU STR	1	0.000	0.000	-187700.0	-252581.1	0,743	Ok

Situazione più gravosa in cmb n. 5

**Elemento: 5 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-233000.0	-252581.1	0,922	Ok
002	SLU STR	1	0.000	0.000	-159000.0	-252581.1	0,630	Ok
005	SLU STR	1	0.000	0.000	-233000.0	-252581.1	0,922	Ok
006	SLU STR	1	0.000	0.000	-164100.0	-252581.1	0,650	Ok
007	SLU STR	1	0.000	0.000	-195400.0	-252581.1	0,774	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 6 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-231600.0	-252581.1	0,917	Ok
002	SLU STR	1	0.000	0.000	-158800.0	-252581.1	0,629	Ok
005	SLU STR	1	0.000	0.000	-231700.0	-252581.1	0,917	Ok
006	SLU STR	1	0.000	0.000	-163800.0	-252581.1	0,649	Ok
007	SLU STR	1	0.000	0.000	-194300.0	-252581.1	0,769	Ok

Situazione più gravosa in cmb n. 5

**Elemento: 7 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-208200.0	-252581.1	0,824	Ok
002	SLU STR	1	0.000	0.000	-156300.0	-252581.1	0,619	Ok
005	SLU STR	1	0.000	0.000	-208200.0	-252581.1	0,824	Ok
006	SLU STR	1	0.000	0.000	-159400.0	-252581.1	0,631	Ok
007	SLU STR	1	0.000	0.000	-174900.0	-252581.1	0,692	Ok

Situazione più gravosa in cmb n. 1



**Elemento: 8 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-204000.0	-252581.1	0,808	Ok
002	SLU STR	1	0.000	0.000	-155600.0	-252581.1	0,616	Ok
005	SLU STR	1	0.000	0.000	-204000.0	-252581.1	0,808	Ok
006	SLU STR	1	0.000	0.000	-158400.0	-252581.1	0,627	Ok
007	SLU STR	1	0.000	0.000	-171400.0	-252581.1	0,679	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 9 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-184100.0	-252581.1	0,729	Ok
002	SLU STR	1	0.000	0.000	-152500.0	-252581.1	0,604	Ok
005	SLU STR	1	0.000	0.000	-184100.0	-252581.1	0,729	Ok
006	SLU STR	1	0.000	0.000	-153800.0	-252581.1	0,609	Ok
007	SLU STR	1	0.000	0.000	-154800.0	-252581.1	0,613	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 10 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-153900.0	-252581.1	0,609	Ok
002	SLU STR	1	0.000	0.000	-147800.0	-252581.1	0,585	Ok
005	SLU STR	1	0.000	0.000	-154000.0	-252581.1	0,610	Ok
006	SLU STR	1	0.000	0.000	-146800.0	-252581.1	0,581	Ok
007	SLU STR	1	0.000	0.000	-129700.0	-252581.1	0,513	Ok

Situazione più gravosa in cmb n. 5

**Elemento: 11 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-146800.0	-252581.1	0,581	Ok
002	SLU STR	1	0.000	0.000	-147700.0	-252581.1	0,585	Ok
005	SLU STR	1	0.000	0.000	-146800.0	-252581.1	0,581	Ok
006	SLU STR	1	0.000	0.000	-145900.0	-252581.1	0,578	Ok
007	SLU STR	1	0.000	0.000	-123800.0	-252581.1	0,490	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 12 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-172200.0	-252581.1	0,682	Ok
002	SLU STR	1	0.000	0.000	-151600.0	-252581.1	0,600	Ok
005	SLU STR	1	0.000	0.000	-172200.0	-252581.1	0,682	Ok
006	SLU STR	1	0.000	0.000	-151800.0	-252581.1	0,601	Ok
007	SLU STR	1	0.000	0.000	-145000.0	-252581.1	0,574	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 13 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-182700.0	-252581.1	0,723	Ok
002	SLU STR	1	0.000	0.000	-153200.0	-252581.1	0,607	Ok
005	SLU STR	1	0.000	0.000	-182700.0	-252581.1	0,723	Ok
006	SLU STR	1	0.000	0.000	-154300.0	-252581.1	0,611	Ok
007	SLU STR	1	0.000	0.000	-153800.0	-252581.1	0,609	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 14 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-172200.0	-252581.1	0,682	Ok
002	SLU STR	1	0.000	0.000	-151600.0	-252581.1	0,600	Ok
005	SLU STR	1	0.000	0.000	-172200.0	-252581.1	0,682	Ok
006	SLU STR	1	0.000	0.000	-151800.0	-252581.1	0,601	Ok
007	SLU STR	1	0.000	0.000	-145000.0	-252581.1	0,574	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 15 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-195700.0	-252581.1	0,775	Ok
002	SLU STR	1	0.000	0.000	-154300.0	-252581.1	0,611	Ok
005	SLU STR	1	0.000	0.000	-195800.0	-252581.1	0,775	Ok
006	SLU STR	1	0.000	0.000	-156500.0	-252581.1	0,620	Ok
007	SLU STR	1	0.000	0.000	-164500.0	-252581.1	0,651	Ok

Situazione più gravosa in cmb n. 5

**Elemento: 16 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-219700.0	-252581.1	0,870	Ok
002	SLU STR	1	0.000	0.000	-156900.0	-252581.1	0,621	Ok
005	SLU STR	1	0.000	0.000	-219800.0	-252581.1	0,870	Ok
006	SLU STR	1	0.000	0.000	-161100.0	-252581.1	0,638	Ok
007	SLU STR	1	0.000	0.000	-184400.0	-252581.1	0,730	Ok

Situazione più gravosa in cmb n. 5

**Elemento: 17 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-146800.0	-252581.1	0,581	Ok
002	SLU STR	1	0.000	0.000	-147700.0	-252581.1	0,585	Ok
005	SLU STR	1	0.000	0.000	-146800.0	-252581.1	0,581	Ok
006	SLU STR	1	0.000	0.000	-145900.0	-252581.1	0,578	Ok
007	SLU STR	1	0.000	0.000	-123800.0	-252581.1	0,490	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 18 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-137500.0	-252581.1	0,544	Ok
002	SLU STR	1	0.000	0.000	-145300.0	-252581.1	0,575	Ok
005	SLU STR	1	0.000	0.000	-137500.0	-252581.1	0,544	Ok
006	SLU STR	1	0.000	0.000	-143000.0	-252581.1	0,566	Ok
007	SLU STR	1	0.000	0.000	-116000.0	-252581.1	0,459	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 19 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-169800.0	-252581.1	0,672	Ok
002	SLU STR	1	0.000	0.000	-150300.0	-252581.1	0,595	Ok
005	SLU STR	1	0.000	0.000	-169900.0	-252581.1	0,673	Ok
006	SLU STR	1	0.000	0.000	-150500.0	-252581.1	0,596	Ok
007	SLU STR	1	0.000	0.000	-142900.0	-252581.1	0,566	Ok

Situazione più gravosa in cmb n. 5

**Elemento: 20 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-198800.0	-252581.1	0,787	Ok
002	SLU STR	1	0.000	0.000	-153700.0	-252581.1	0,609	Ok
005	SLU STR	1	0.000	0.000	-198800.0	-252581.1	0,787	Ok
006	SLU STR	1	0.000	0.000	-156200.0	-252581.1	0,618	Ok
007	SLU STR	1	0.000	0.000	-166900.0	-252581.1	0,661	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 21 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-171300.0	-252581.1	0,678	Ok
002	SLU STR	1	0.000	0.000	-149400.0	-252581.1	0,591	Ok
005	SLU STR	1	0.000	0.000	-171300.0	-252581.1	0,678	Ok
006	SLU STR	1	0.000	0.000	-149800.0	-252581.1	0,593	Ok
007	SLU STR	1	0.000	0.000	-144000.0	-252581.1	0,570	Ok

Situazione più gravosa in cmb n. 1

**Elemento: 22 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-140500.0	-252581.1	0,556	Ok
002	SLU STR	1	0.000	0.000	-144600.0	-252581.1	0,572	Ok
005	SLU STR	1	0.000	0.000	-140500.0	-252581.1	0,556	Ok
006	SLU STR	1	0.000	0.000	-142700.0	-252581.1	0,565	Ok
007	SLU STR	1	0.000	0.000	-118300.0	-252581.1	0,468	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 23 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-110200.0	-252581.1	0,436	Ok
002	SLU STR	1	0.000	0.000	-139900.0	-252581.1	0,554	Ok
005	SLU STR	1	0.000	0.000	-110200.0	-252581.1	0,436	Ok
006	SLU STR	1	0.000	0.000	-135600.0	-252581.1	0,537	Ok
007	SLU STR	1	0.000	0.000	-93070.0	-252581.1	0,368	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 24 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-84050.0	-252581.1	0,333	Ok
002	SLU STR	1	0.000	0.000	-135900.0	-252581.1	0,538	Ok
005	SLU STR	1	0.000	0.000	-84020.0	-252581.1	0,333	Ok
006	SLU STR	1	0.000	0.000	-129600.0	-252581.1	0,513	Ok
007	SLU STR	1	0.000	0.000	-71250.0	-252581.1	0,282	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 25 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-107300.0	-252581.1	0,425	Ok
002	SLU STR	1	0.000	0.000	-140600.0	-252581.1	0,557	Ok
005	SLU STR	1	0.000	0.000	-107300.0	-252581.1	0,425	Ok
006	SLU STR	1	0.000	0.000	-136000.0	-252581.1	0,538	Ok
007	SLU STR	1	0.000	0.000	-90810.0	-252581.1	0,360	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 26 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-121400.0	-252581.1	0,481	Ok
002	SLU STR	1	0.000	0.000	-143700.0	-252581.1	0,569	Ok
005	SLU STR	1	0.000	0.000	-121400.0	-252581.1	0,481	Ok
006	SLU STR	1	0.000	0.000	-140000.0	-252581.1	0,554	Ok
007	SLU STR	1	0.000	0.000	-102700.0	-252581.1	0,407	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 27 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-87470.0	-252581.1	0,346	Ok
002	SLU STR	1	0.000	0.000	-137500.0	-252581.1	0,544	Ok
005	SLU STR	1	0.000	0.000	-87450.0	-252581.1	0,346	Ok
006	SLU STR	1	0.000	0.000	-131300.0	-252581.1	0,520	Ok
007	SLU STR	1	0.000	0.000	-74240.0	-252581.1	0,294	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 28 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-65160.0	-252581.1	0,258	Ok
002	SLU STR	1	0.000	0.000	-132900.0	-252581.1	0,526	Ok
005	SLU STR	1	0.000	0.000	-65130.0	-252581.1	0,258	Ok
006	SLU STR	1	0.000	0.000	-125200.0	-252581.1	0,496	Ok
007	SLU STR	1	0.000	0.000	-55490.0	-252581.1	0,220	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 29 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-55830.0	-252581.1	0,221	Ok
002	SLU STR	1	0.000	0.000	-131500.0	-252581.1	0,521	Ok
005	SLU STR	1	0.000	0.000	-55790.0	-252581.1	0,221	Ok
006	SLU STR	1	0.000	0.000	-123000.0	-252581.1	0,487	Ok
007	SLU STR	1	0.000	0.000	-47710.0	-252581.1	0,189	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 30 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-83210.0	-252581.1	0,329	Ok
002	SLU STR	1	0.000	0.000	-136900.0	-252581.1	0,542	Ok
005	SLU STR	1	0.000	0.000	-83180.0	-252581.1	0,329	Ok
006	SLU STR	1	0.000	0.000	-130300.0	-252581.1	0,516	Ok
007	SLU STR	1	0.000	0.000	-70680.0	-252581.1	0,280	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 31 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-110900.0	-252581.1	0,439	Ok
002	SLU STR	1	0.000	0.000	-142100.0	-252581.1	0,563	Ok
005	SLU STR	1	0.000	0.000	-110900.0	-252581.1	0,439	Ok
006	SLU STR	1	0.000	0.000	-137600.0	-252581.1	0,545	Ok
007	SLU STR	1	0.000	0.000	-93920.0	-252581.1	0,372	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 32 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-121400.0	-252581.1	0,481	Ok
002	SLU STR	1	0.000	0.000	-143700.0	-252581.1	0,569	Ok
005	SLU STR	1	0.000	0.000	-121400.0	-252581.1	0,481	Ok
006	SLU STR	1	0.000	0.000	-140000.0	-252581.1	0,554	Ok
007	SLU STR	1	0.000	0.000	-102700.0	-252581.1	0,407	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 33 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-95700.0	-252581.1	0,379	Ok
002	SLU STR	1	0.000	0.000	-138800.0	-252581.1	0,550	Ok
005	SLU STR	1	0.000	0.000	-95680.0	-252581.1	0,379	Ok
006	SLU STR	1	0.000	0.000	-133300.0	-252581.1	0,528	Ok
007	SLU STR	1	0.000	0.000	-81100.0	-252581.1	0,321	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 34 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-69050.0	-252581.1	0,273	Ok
002	SLU STR	1	0.000	0.000	-133500.0	-252581.1	0,529	Ok
005	SLU STR	1	0.000	0.000	-69020.0	-252581.1	0,273	Ok
006	SLU STR	1	0.000	0.000	-126100.0	-252581.1	0,499	Ok
007	SLU STR	1	0.000	0.000	-58740.0	-252581.1	0,233	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 35 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-57180.0	-252581.1	0,226	Ok
002	SLU STR	1	0.000	0.000	-131700.0	-252581.1	0,521	Ok
005	SLU STR	1	0.000	0.000	-57140.0	-252581.1	0,226	Ok
006	SLU STR	1	0.000	0.000	-123300.0	-252581.1	0,488	Ok
007	SLU STR	1	0.000	0.000	-48840.0	-252581.1	0,193	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 36 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-90010.0	-252581.1	0,356	Ok
002	SLU STR	1	0.000	0.000	-136800.0	-252581.1	0,542	Ok
005	SLU STR	1	0.000	0.000	-89990.0	-252581.1	0,356	Ok
006	SLU STR	1	0.000	0.000	-130900.0	-252581.1	0,518	Ok
007	SLU STR	1	0.000	0.000	-76220.0	-252581.1	0,302	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 37 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-121600.0	-252581.1	0,481	Ok
002	SLU STR	1	0.000	0.000	-142800.0	-252581.1	0,565	Ok
005	SLU STR	1	0.000	0.000	-121600.0	-252581.1	0,481	Ok
006	SLU STR	1	0.000	0.000	-139300.0	-252581.1	0,552	Ok
007	SLU STR	1	0.000	0.000	-102700.0	-252581.1	0,407	Ok

Situazione più gravosa in cmb n. 2

**Elemento: 38 - Palo singolo**

$N_q = 1.000$ ,  $\sigma_{punta} = 5.940$ ,  $\phi = 0.0$ ,  $N_c = 43.189$ ,  $c_{punta} = 0.600$

Port. lat. = 395840.7 daN, Port. punta = 250177.8 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-117500.0	-252581.1	0,465	Ok
002	SLU STR	1	0.000	0.000	-141100.0	-252581.1	0,559	Ok
005	SLU STR	1	0.000	0.000	-117500.0	-252581.1	0,465	Ok
006	SLU STR	1	0.000	0.000	-137300.0	-252581.1	0,544	Ok
007	SLU STR	1	0.000	0.000	-99180.0	-252581.1	0,393	Ok

Situazione più gravosa in cmb n. 2

**VALORI DI CALCOLO DEI CEDIMENTI PER FONDAZIONI PROFONDE****Elemento: 1 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-124100.0	0.240
004 (SLE q.p.)	1	0.000	0.000	-124100.0	0.240

**Elemento: 2 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-146300.0	0.283
004 (SLE q.p.)	1	0.000	0.000	-143500.0	0.278

**Elemento: 3 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-165400.0	0.320
004 (SLE q.p.)	1	0.000	0.000	-160200.0	0.310

**Elemento: 4 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-179200.0	0.347
004 (SLE q.p.)	1	0.000	0.000	-172300.0	0.333

**Elemento: 5 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-186100.0	0.360
004 (SLE q.p.)	1	0.000	0.000	-178300.0	0.345

**Elemento: 6 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-185100.0	0.358
004 (SLE q.p.)	1	0.000	0.000	-177400.0	0.343

**Elemento: 7 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-168200.0	0.325
004 (SLE q.p.)	1	0.000	0.000	-162800.0	0.315

**Elemento: 8 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-165100.0	0.319
004 (SLE q.p.)	1	0.000	0.000	-160100.0	0.310

**Elemento: 9 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm

003 (SLE freq)	1	0.000	0.000	-150600.0	0.291
004 (SLE q.p.)	1	0.000	0.000	-147400.0	0.285

**Elemento: 10 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-128500.0	0.249
004 (SLE q.p.)	1	0.000	0.000	-128100.0	0.248

**Elemento: 11 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-123500.0	0.239
004 (SLE q.p.)	1	0.000	0.000	-123800.0	0.240

**Elemento: 12 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-142000.0	0.275
004 (SLE q.p.)	1	0.000	0.000	-140100.0	0.271

**Elemento: 13 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-149700.0	0.290
004 (SLE q.p.)	1	0.000	0.000	-146800.0	0.284

**Elemento: 14 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-142100.0	0.275
004 (SLE q.p.)	1	0.000	0.000	-140100.0	0.271

**Elemento: 15 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-159100.0	0.308
004 (SLE q.p.)	1	0.000	0.000	-154800.0	0.300

**Elemento: 16 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-176400.0	0.341
004 (SLE q.p.)	1	0.000	0.000	-169800.0	0.329

**Elemento: 17 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-123500.0	0.239
004 (SLE q.p.)	1	0.000	0.000	-123800.0	0.240

**Elemento: 18 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-116500.0	0.225
004 (SLE q.p.)	1	0.000	0.000	-117600.0	0.228

**Elemento: 19 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-140100.0	0.271
004 (SLE q.p.)	1	0.000	0.000	-138300.0	0.268

**Elemento: 20 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-161000.0	0.312
004 (SLE q.p.)	1	0.000	0.000	-156400.0	0.303

**Elemento: 21 - Palo singolo**



<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-140900.0	0.273
004 (SLE q.p.)	1	0.000	0.000	-138800.0	0.269

**Elemento: 22 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-118400.0	0.229
004 (SLE q.p.)	1	0.000	0.000	-119100.0	0.230

**Elemento: 23 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-96230.0	0.186
004 (SLE q.p.)	1	0.000	0.000	-99700.0	0.193

**Elemento: 24 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-77090.0	0.149
004 (SLE q.p.)	1	0.000	0.000	-82960.0	0.161

**Elemento: 25 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-94400.0	0.183
004 (SLE q.p.)	1	0.000	0.000	-98260.0	0.190

**Elemento: 26 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-104900.0	0.203
004 (SLE q.p.)	1	0.000	0.000	-107600.0	0.208

**Elemento: 27 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-79860.0	0.155
004 (SLE q.p.)	1	0.000	0.000	-85540.0	0.166

**Elemento: 28 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-63260.0	0.122
004 (SLE q.p.)	1	0.000	0.000	-70870.0	0.137

**Elemento: 29 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-56440.0	0.109
004 (SLE q.p.)	1	0.000	0.000	-64890.0	0.126

**Elemento: 30 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-76740.0	0.148
004 (SLE q.p.)	1	0.000	0.000	-82810.0	0.160

**Elemento: 31 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-97250.0	0.188
004 (SLE q.p.)	1	0.000	0.000	-100900.0	0.195

**Elemento: 32 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-104900.0	0.203
004 (SLE q.p.)	1	0.000	0.000	-107600.0	0.208

**Elemento: 33 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-85880.0	0.166
004 (SLE q.p.)	1	0.000	0.000	-90810.0	0.176

**Elemento: 34 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-66110.0	0.128
004 (SLE q.p.)	1	0.000	0.000	-73350.0	0.142

**Elemento: 35 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-57420.0	0.111
004 (SLE q.p.)	1	0.000	0.000	-65760.0	0.127

**Elemento: 36 - Palo singolo**

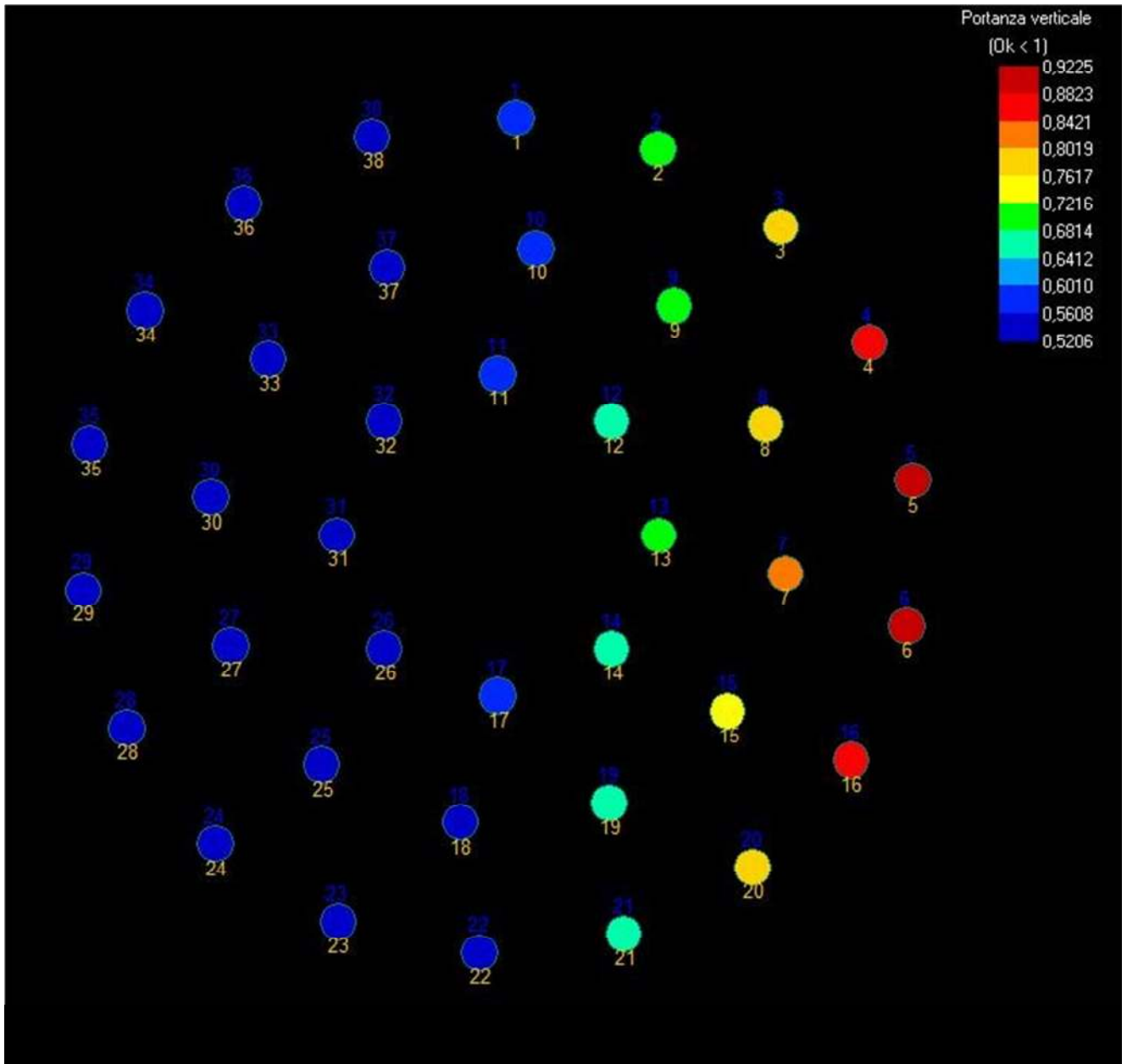
Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-81450.0	0.158
004 (SLE q.p.)	1	0.000	0.000	-86770.0	0.168

**Elemento: 37 - Palo singolo**

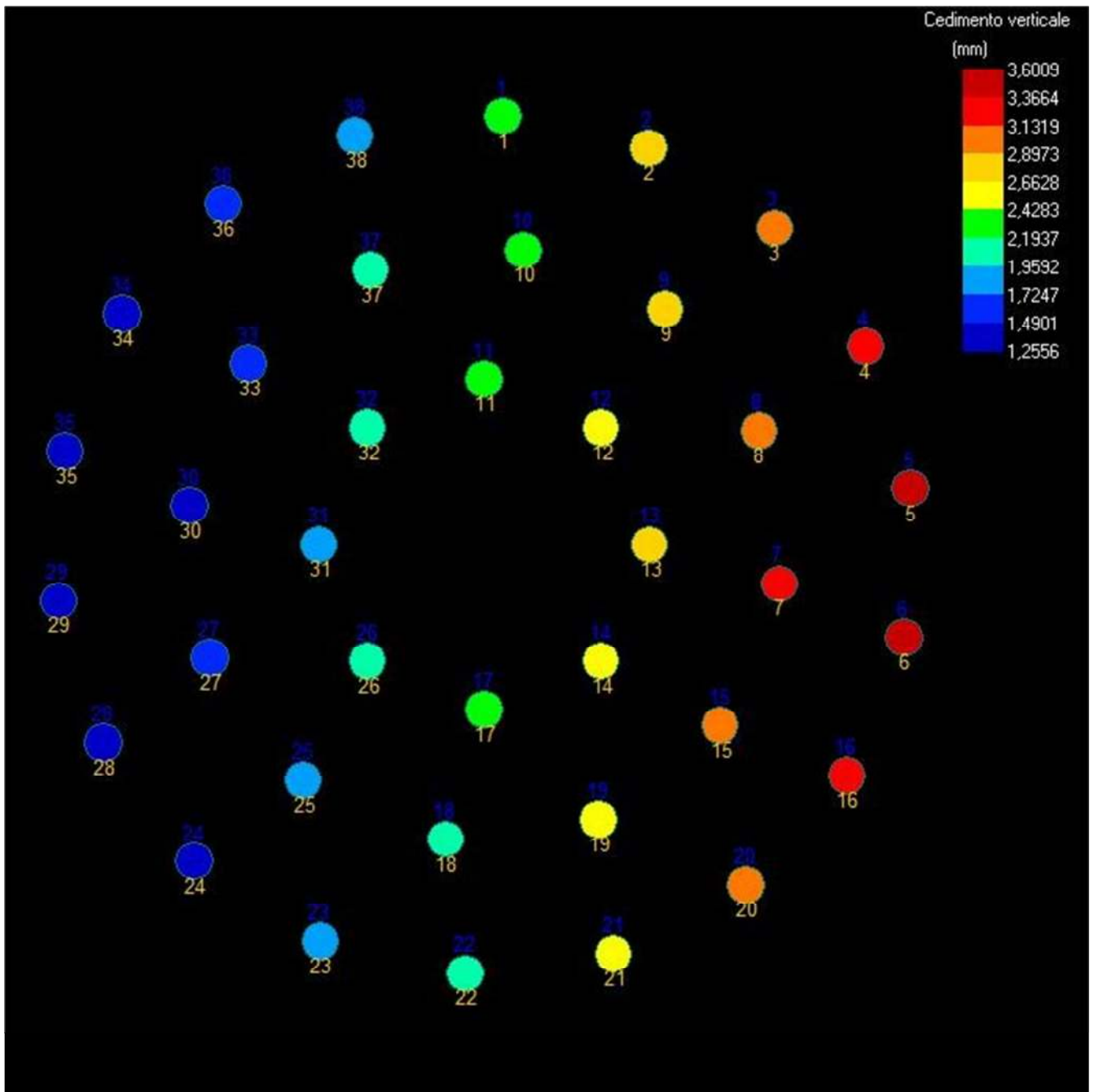
Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-104800.0	0.203
004 (SLE q.p.)	1	0.000	0.000	-107400.0	0.208

**Elemento: 38 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-101600.0	0.197
004 (SLE q.p.)	1	0.000	0.000	-104400.0	0.202



Verifica di carico limite per singolo palo nelle combinazioni di carico più gravose



Cedimenti per singolo palo nelle combinazioni di carico più gravose

# RELAZIONE GEOTECNICA E DELLE FONDAZIONI

## Parte 2 – Verifica in condizioni drenate

### NORMATIVE DI RIFERIMENTO

In quanto di seguito riportato viene fatto esplicito riferimento alle seguenti Normative:

- **LEGGE n° 64 del 02/02/1974.** "Provvedimenti per le costruzioni, con particolari prescrizioni per le zone sismiche.";
- **D.M. LL.PP. del 11/03/1988.** "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.";
- **D.M. LL.PP. del 16/01/1996.** "Norme tecniche per le costruzioni in zone sismiche.";
- **Circolare Ministeriale LL.PP. n° 65/AA.GG. del 10/04/1997.** "Istruzioni per l'applicazione delle "Norme Tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/1996.";
- **Eurocodice 1 - Parte 1** - "Basi di calcolo ed azioni sulle strutture - Basi di calcolo -";
- **Eurocodice 7 - Parte 1** - "Progettazione geotecnica - Regole generali -";
- **Eurocodice 8 - Parte 5** - "Indicazioni progettuali per la resistenza sismica delle strutture - Fondazioni, strutture di contenimento ed aspetti geotecnici -";
- **D.M. 17/01/2018 - NUOVE NORME TECNICHE PER LE COSTRUZIONI**
- **Circolare n. 7 del 21/01/2019**

### INDAGINI IN SITO E CARATTERIZZAZIONE GEOTECNICA DEI TERRENI DI FONDAZIONE

La finalità della presente relazione è quella di definire il comportamento meccanico del volume di terreno (volume significativo) influenzato direttamente o indirettamente dalla costruzione di un manufatto e che a sua volta influenza il comportamento strutturale del manufatto stesso. Di seguito si illustrano i risultati delle indagini geologiche eseguite, nonché l'interpretazione dei risultati ottenuti. Dal quadro generale in tal modo scaturito si definiscono le caratteristiche della fondazione da adottare ed il modello da utilizzare per le elaborazioni relative alla interazione sovrastruttura-fondazione e fondazione-terreno.

.....  
Le risultanze dell'indagine in sito hanno evidenziato che:

.....  
Di seguito si riportano alcuni cenni teorici relativi alle modalità di calcolo implementate e la descrizione della simbologia adottata nei tabulati.

### DETERMINAZIONE DELLA PORTANZA VERTICALE DI FONDAZIONI PROFONDE

Per la determinazione della portanza verticale di fondazioni profonde si fa riferimento a due contributi: la "portanza di punta" e la "portanza per attrito laterale". Queste due componenti in genere sono calcolate in maniera autonoma dato che risulta molto difficoltoso, tranne che in poche situazioni, stabilire quanta parte del carico è assorbita dall'attrito laterale e quanta dalla resistenza alla punta. Nel seguito, ai fini del calcolo della portanza verticale, si assumeranno le seguenti espressioni generali valide per il caso di palo soggetto a compressione e per il caso di palo soggetto a trazione (nel calcolo della portanza verticale è possibile tenere in conto tutti o solo uno dei contributi su definiti):

$$Q_C = \frac{Q_P}{\eta_P} + \frac{Q_L}{\eta_L} - W_{ATT.NEG.} - W_P \quad (\text{caso di palo in compressione}) \quad Q_T$$
$$= \frac{Q_L}{\eta_L} + W_P \quad (\text{caso di palo in trazione})$$

dove i simboli su riportati hanno il seguente significato:

- $Q_C$  resistenza a compressione del palo
- $Q_T$  resistenza a trazione del palo
- $Q_P$  carico limite verticale alla punta del palo
- $Q_L$  carico limite verticale lungo la superficie laterale del palo

- $W_{ATT.NEG.}$  attrito negativo agente sul palo
- $W_P$  peso totale del palo
- $\eta_{II}$  coefficiente di sicurezza per carico limite verticale alla punta del palo
- $\eta_A$  coefficiente di sicurezza per carico limite verticale lungo la superficie laterale del palo

I valori del carico limite verticale alla punta del palo " $Q_P$ " e del carico limite verticale lungo la superficie laterale del palo " $Q_L$ " sono determinati con le note "formule statiche". Queste esprimono i valori di cui sopra in funzione della geometria del palo, delle caratteristiche geotecniche del terreno in cui è immerso, della modalità esecutiva e dell'interfaccia palo-terreno.

Di seguito si illustrano le metodologie con le quali saranno determinati i valori prima citati; è necessario tenere presente che tali metodi sono riferiti al calcolo del "singolo palo" e per estendere tale modalità computazione al caso di "pali in gruppo" si farà ricorso ai "coefficienti d'efficienza", in questo modo si potrà tenere in debito conto l'interferenza reciproca che i pali esercitano.

## CARICO LIMITE VERTICALE ALLA PUNTA DEL PALO

Il valore del carico limite verticale alla punta del palo, indipendentemente dal metodo utilizzato per la sua determinazione, è condizionato dalla modalità esecutiva. Esso varia notevolmente a seconda che il palo sia del tipo "infisso" o "trivellato" poiché le caratteristiche fisico-meccaniche del terreno circostante il palo variano in seguito alle operazioni d'installazione. Di conseguenza, per tenere conto della modalità esecutiva nel calcolo dei coefficienti di portanza, si propone di modificare il valore dell'angolo di resistenza a taglio secondo quanto suggerito da Kishida (1967):

$$\phi_{cor} = \frac{\phi + 40}{2} \quad (\text{per pali infissi}) \quad \phi_{cor} = \phi - 3^\circ \quad (\text{per pali trivellati})$$

Con la correzione di cui sopra si determineranno i fattori adimensionali di portanza che sono presenti nella relazione per la determinazione del carico limite verticale alla punta che assume la seguente espressione:

$$Q_P = A_P \cdot (q_P \cdot N_q^* + c \cdot N_c^*)$$

dove i simboli su riportati hanno il seguente significato:

- $A_P$  superficie portante efficace della punta del palo
- $q_P$  pressione del terreno presente alla punta del palo
- $c$  coesione del terreno alla punta del palo (nel caso di condizione non drenata  $c = c_u$ )
- $N_q^*, N_c^*$  fattori adimensionali di portanza funzione dell'angolo d'attrito interno  $\phi_{top}$  del terreno già corretti

In letteratura esistono diverse formulazioni per il calcolo dei fattori adimensionali di portanza, di seguito si riportano quelle che sono state implementate:

### Formulazione di Meyerhof per base poggiate su terreni sciolti (1951)

- se  $\phi \neq 0$  (condizione drenata) si ha:

$$\begin{aligned} N_q &= \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) \cdot e^{\pi \cdot \text{tg}(\phi)} & N_c &= (N_q - 1) \cdot \text{ctg}(\phi) \\ s_q &= 1 + 0.1 \cdot \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) & s_c &= 1 + 0.2 \cdot \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) \end{aligned} \quad (\text{fattori di forma})$$

$$d_q = 1 + 0.1 \cdot \frac{L}{D} \cdot \sqrt{\text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right)} \quad d_c = 1 + 0.2 \cdot \frac{L}{D} \cdot \sqrt{\text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right)} \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

- se  $\phi = 0$  (condizione non drenata) si ha:

$$\begin{aligned} N_q &= 1.00 & N_c &= \pi + 2 \\ s_q &= 1.00 & s_c &= 1.20 \end{aligned} \quad (\text{fattori di forma})$$

$$d_q = 1.00 \quad d_c = 1 + 0.2 \cdot \frac{L}{D} \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

### Formulazione di Hansen per base poggiate su terreni sciolti (1970)

- se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q = \text{tg}^2 \left( \frac{\pi}{4} + \frac{\phi}{2} \right) \cdot e^{\pi \cdot \text{tg}(\phi)} \quad N_c = (N_q - 1) \cdot \text{ctg}(\phi)$$

$$s_q = 1 + \operatorname{tg}(\phi) \qquad s_c = 1 + \frac{N_q}{N_c} \qquad \text{(fattori di forma)}$$

$$d_q = 1 + 2 \cdot \operatorname{tg}(\phi) \cdot (1 - \operatorname{sen}(\phi))^2 \cdot \theta \qquad d_c = 1 + 0.4 \cdot \theta \qquad \text{(fattori d'approfondimento)}$$

$$\text{dove: se } \frac{L}{D} \leq 1 \Rightarrow \theta = \frac{L}{D}, \text{ se } \frac{L}{D} > 1 \Rightarrow \theta = \operatorname{arctg}\left(\frac{L}{D}\right)$$

$$N_q^* = N_q \cdot s_q \cdot d_q \qquad N_c^* = N_c \cdot s_c \cdot d_c$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q = 1.00 \qquad N_c = \pi + 2 \qquad \text{(fattori di forma)}$$

$$s_q = 1.00 \qquad s_c = 1.20$$

$$d_q = 1.00 \qquad d_c = 1 + 0.4 \cdot \theta \qquad \text{(fattori d'approfondimento)}$$

$$N_q^* = N_q \cdot s_q \cdot d_q \qquad N_c^* = N_c \cdot s_c \cdot d_c$$

### Formulazione di Zeevaert per base poggiate su terreni sciolti (1972)

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = \frac{\cos^2(\phi)}{2 \cdot \cos^2\left(\frac{\pi + \phi}{4}\right)} \cdot e^{\left(\frac{\pi}{2} + \phi\right) \cdot \operatorname{tg}(\phi)} \qquad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00 \qquad N_c^* = 9.00$$

### Formulazione di Berezantzev per base poggiate su terreni sciolti (1970)

Berezantzev fa riferimento ad una superficie di scorrimento "alla Terzaghi" che si arresta sul piano della punta del palo. Inoltre considera il cilindro di terreno coassiale al palo (avente diametro pari all'estensione in sezione della superficie di scorrimento) in parte sostenuto da tensioni tangenziali dal rimanente terreno presente lungo la superficie laterale del cilindro. Conseguentemente il valore della pressione presente alla punta del palo è inferiore alla corrispondente pressione litostatica ed è influenzata dal rapporto tra la profondità alla quale è posta la punta "L" del palo e il diametro "D" dello stesso. Quindi il valore di  $N_q$  è influenzato da questo effetto "Silo". I valori che l'autore propone sono:

se  $\phi \neq 0$  (condizione drenata) si ha:

Valori di  $N_q^*$  per pali di diametro fino a 80.0 cm.

$L/\Delta$	8°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	46°	48°	50°
4	1.07	2.18	3.15	4.72	7.15	10.73	15.85	22.95	32.62	45.56	62.69	85.18	114.53	152.71	202.32	266.82	350.86	460.79	605.36
12	1.04	1.77	2.46	3.64	5.52	8.42	12.71	18.85	27.44	39.21	55.07	76.20	104.13	140.81	188.86	251.72	334.05	442.17	584.82
20	1.03	1.63	2.20	3.20	4.82	7.38	11.22	16.82	24.76	35.79	50.83	71.06	98.01	133.65	180.59	242.29	323.39	430.21	571.48
28	1.03	1.54	2.05	2.93	4.40	6.72	10.26	15.48	22.96	33.43	47.84	67.37	93.54	128.35	174.39	235.13	315.21	420.95	561.08
36	1.02	1.49	1.94	2.75	4.10	6.26	9.57	14.49	21.60	31.64	45.53	64.48	90.00	124.10	169.36	229.27	308.46	413.26	552.38
50	1.02	1.42	1.82	2.53	3.74	5.68	8.70	13.23	19.84	29.27	42.45	60.56	85.14	118.18	162.30	220.95	298.80	402.16	539.74
75	1.02	1.35	1.69	2.30	3.33	5.02	7.69	11.74	17.73	26.37	38.58	55.55	78.82	110.38	152.84	209.67	285.53	386.74	522.01
100	1.01	1.31	1.61	2.14	3.07	4.60	7.02	10.74	16.28	24.34	35.84	51.95	74.19	104.56	145.68	201.02	275.23	374.64	507.95
200	1.01	1.22	1.44	1.84	2.54	3.71	5.60	8.56	13.05	19.73	29.43	43.30	62.82	89.95	127.29	178.30	247.63	341.59	468.90
500	1.01	1.14	1.29	1.55	2.02	2.82	4.14	6.24	9.50	14.45	21.83	32.64	48.25	70.49	101.85	145.69	206.57	290.75	406.87

Valori di  $N_q^*$  per pali di diametro maggiore a 80.0 cm.

$L/\Delta$	8°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	46°	48°	50°
4	1.16	3.09	3.95	5.04	6.44	8.22	10.50	13.41	17.12	21.87	27.92	35.65	45.53	58.14	74.24	94.80	121.05	154.57	197.38
12	1.21	3.14	3.98	5.05	6.42	8.14	10.34	13.13	16.68	21.18	26.90	34.17	43.41	55.15	70.07	89.03	113.13	143.77	182.72
20	1.26	3.18	4.01	5.06	6.39	8.06	10.18	12.85	16.23	20.49	25.88	32.69	41.29	52.16	65.89	83.26	105.21	132.97	168.06
28	1.30	3.22	4.04	5.07	6.36	7.99	10.02	12.57	15.78	19.81	24.86	31.20	39.17	49.16	61.72	77.49	97.29	122.16	153.40
36	1.35	3.27	4.07	5.08	6.34	7.91	9.86	12.30	15.33	19.12	23.84	29.72	37.04	46.17	57.55	71.72	89.38	111.36	138.75
44	1.39	3.31	4.10	5.09	6.31	7.83	9.70	12.02	14.88	18.43	22.81	28.23	34.92	43.18	53.38	65.95	81.46	100.56	124.09
52	1.44	3.35	4.14	5.10	6.29	7.75	9.54	11.74	14.44	17.74	21.79	26.75	32.80	40.19	49.21	60.18	73.54	89.76	109.43
56	1.46	3.37	4.15	5.10	6.27	7.71	9.46	11.60	14.21	17.40	21.28	26.00	31.74	38.70	47.12	57.30	69.58	84.36	102.10
60	1.49	3.39	4.17	5.11	6.26	7.67	9.38	11.46	13.99	17.06	20.77	25.26	30.68	37.20	45.03	54.42	65.62	78.96	94.77
65	1.51	3.42	4.19	5.12	6.25	7.62	9.28	11.29	13.71	16.63	20.13	24.33	29.35	35.33	42.43	50.81	60.67	72.21	85.61

$$N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00 \qquad N_c^* = 9.00$$

### Formulazione di Vesic per base poggiate su terreni sciolti (1975)

se  $\phi \neq 0$  (condizione drenata) si ha:



$$N_q^* = \frac{3}{3 - \sin(\phi)} \cdot \operatorname{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \cdot I_{rr}^{\frac{4 \cdot \sin(\phi)}{3 \cdot (1 + \sin(\phi))}} \cdot e^{(\frac{\pi}{2} - \phi) \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$I_{rr} = \frac{I_r}{1 + \varepsilon_v \cdot I_r} \quad \varepsilon_v = \frac{q_p \cdot \alpha}{E_t} \cdot \frac{(1 + \nu) \cdot (1 - 2 \cdot \nu)}{(1 - \nu)} \quad I_r = \frac{E_t}{2 \cdot (1 + \nu) \cdot (c + q_p \cdot \alpha \cdot \operatorname{tg}(\phi))}$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00$$

$$N_c^* = \frac{4}{3} \cdot (\log_n(I_{rr}) + 1) + \frac{\pi}{2} + 1$$

dove i simboli su riportati hanno il seguente significato:

- $E_t$  modulo elastico del terreno alla profondità della punta del palo
- $\nu$  coefficiente di Poisson del terreno alla profondità della punta del palo
- $\alpha$  coefficiente di riduzione della pressione del terreno presente alla profondità della punta del palo

Nel caso in cui si scelga di effettuare la riduzione della pressione del terreno presente alla profondità della punta del palo (cioè  $\alpha > 1$ ) il coefficiente di riduzione " $\alpha$ " assume la seguente espressione:

$$\alpha = \frac{1 + 2 \cdot K_0}{3} \quad \text{dove: se } \phi \neq 0 \Rightarrow K_0 = 1 - \sin(\phi); \quad \text{se } \phi = 0 \Rightarrow K_0 = \frac{\nu}{1 - \nu}$$

#### Formulazione di Janbu per base poggiate su terreni sciolti (1976)

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = (\operatorname{tg}(\phi) + \sqrt{1 + \operatorname{tg}^2(\phi)})^2 \cdot e^{2 \cdot \vartheta \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$\vartheta = 60 + 0.45 \cdot Dr$$

dove " $Dr$ " è la densità relativa del terreno.

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00$$

$$N_c^* = 5.74$$

#### Formulazione di Terzaghi per base poggiate su roccia (1943)

Per la determinazione del carico limite nel caso di presenza di ammasso roccioso bisogna valutare molto attentamente il grado di solidità della roccia stessa. Tale valutazione viene in genere eseguita stimando l'indice  $RQD$  (Rock Quality Designation) che rappresenta una misura della qualità di un ammasso roccioso. Tale indice può variare da un minimo di 0 (caso in cui la lunghezza dei pezzi di roccia estratti dal carotiere è inferiore a 100 mm) ad un massimo di 1 (caso in cui la carota risulta integra) ed è calcolato nel seguente modo:

$$RQD = \frac{\sum \text{lunghezze dei pezzi di roccia intatta} > 100\text{mm}}{\text{lunghezza del carotiere}}$$

Se il valore di  $RQD$  è molto basso la roccia è molto fratturata ed il calcolo della capacità portante dell'ammasso roccioso va condotto alla stregua di un terreno sciolto utilizzando tutte le formulazioni sopra descritte.

$$N_q = \frac{e^{2 \cdot \left(\frac{3 \cdot \pi}{4} - \frac{\phi}{2}\right) \cdot \operatorname{tg}(\phi)}}{2 \cdot \cos^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \quad N_c = (N_q - 1) \cdot \operatorname{ctg}(\phi) \quad \text{se } \phi = 0 \Rightarrow N_c = \frac{3}{2} \cdot \pi + 1$$

$$s_q = 1.00 \quad s_c = 1.30 \quad \text{(fattori di forma)}$$

$$N_q^* = RQD^2 \cdot N_q \cdot s_q \quad N_c^* = RQD^2 \cdot N_c \cdot s_c$$

#### Formulazione di Stagg-Zienkiewicz per base poggiate su roccia (1968)

$$N_q = \operatorname{tg}^6\left(\frac{90^\circ + \phi}{2}\right) \quad N_c = 5 \cdot \operatorname{tg}^4\left(\frac{90^\circ + \phi}{2}\right)$$

$$s_q = 1.00 \quad s_c = 1.30 \quad \text{(fattori di forma)}$$

$$N_q^* = RQD^2 \cdot N_q \cdot s_q \quad N_c^* = RQD^2 \cdot N_c \cdot s_c$$

### CARICO LIMITE VERTICALE LUNGO LA SUPERFICIE LATERALE DEL PALO

Il valore del carico limite verticale lungo la superficie laterale del palo è dato dall'integrale esteso a tutta la superficie laterale del palo delle tensioni tangenziali che si sviluppano all'interfaccia palo-terreno in condizioni limite:

$$Q_L = \int_{\Gamma} \tau_{\text{lim}} \cdot d\Gamma = \int_0^L (c_a + \sigma_h \cdot \operatorname{tg}(\delta)) \cdot P_{\text{lat}} \cdot dz$$



dove i simboli sopra riportati hanno il seguente significato:

- $\chi_\alpha$  adesione all'interfaccia terreno-palo alla generica profondità "z"
- $\sigma_\eta$  tensione orizzontale alla generica profondità "z"
- $\delta$  angolo di resistenza a taglio all'interfaccia terreno-palo alla generica profondità "z"
- $\Pi_{\lambda\alpha\tau}$  perimetro della sezione trasversale del palo alla generica profondità "z"
- $A$  sviluppo longitudinale del palo

Analogamente al carico limite alla punta, anche il valore del carico limite verticale lungo la superficie laterale del palo varia notevolmente a seconda che esso sia del tipo "infisso" o "trivellato" a causa del diverso comportamento del terreno circostante in palo. Conseguentemente i parametri sopra riportati possono essere correlati da leggi diverse in funzione delle modalità di esecuzione del palo. Di seguito si descrivono quelle che sono state implementate.

L'adesione " $c_a$ " è correlata alla coesione " $c$ " nel caso di condizioni drenate; oppure alla coesione non drenata " $c_u$ " nel caso di condizioni non drenate, per mezzo del coefficiente d'adesione " $\psi$ " secondo la seguente relazione:

$$c_a = c_s \cdot \psi \quad \text{dove: } c_s = c \text{ (in condizione drenata);}$$

$$c_s = c_u \text{ (in condizione non drenata).}$$

Esprimendo il valore di " $c$ " in  $\text{N/cm}^2$ , il coefficiente d'adesione " $\psi$ " può assumere i seguenti valori:

**Caquot-Kerisel (consigliato per pali trivellati)**

$$\psi = \frac{100 + c_s^2}{100 + 7 \cdot c_s^2}$$

**Meyerhof-Murdock (consigliato per pali trivellati)**

$$\text{se } c_s \leq 5.00 \text{ N/cm}^2 \Rightarrow \psi = 1.000 - 0.100 \cdot c_s$$

$$\text{se } c_s > 5.00 \text{ N/cm}^2 \Rightarrow \psi = 0.525 - 0.005 \cdot c_s$$

**Whitaker-Cooke (consigliato per pali trivellati)**

$$\text{se } c_s \leq 2.50 \text{ N/cm}^2 \Rightarrow \psi = 0.90$$

$$\text{se } 2.50 < c_s \leq 5.00 \text{ N/cm}^2 \Rightarrow \psi = 0.80$$

$$\text{se } 5.00 < c_s \leq 7.50 \text{ N/cm}^2 \Rightarrow \psi = 0.60$$

$$\text{se } c_s > 7.50 \text{ N/cm}^2 \Rightarrow \psi = 0.40$$

**Woodward (consigliato per pali trivellati)**

$$\text{se } c_s \leq 4.00 \text{ N/cm}^2 \Rightarrow \psi = 0.90$$

$$\text{se } 4.00 < c_s \leq 8.00 \text{ N/cm}^2 \Rightarrow \psi = 0.60$$

$$\text{se } 8.00 < c_s \leq 12.00 \text{ N/cm}^2 \Rightarrow \psi = 0.50$$

$$\text{se } 12.00 < c_s \leq 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.40$$

$$\text{se } c_s > 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.30$$

**Viggiani e altri (consigliato per pali infissi)**

$$\text{se } c_s \leq 5.00 \text{ N/cm}^2 \Rightarrow \psi = 1.00$$

$$\text{se } 5.00 < c_s \leq 10.00 \text{ N/cm}^2 \Rightarrow \psi = 0.70$$

$$\text{se } 10.00 < c_s \leq 15.00 \text{ N/cm}^2 \Rightarrow \psi = 0.50$$

$$\text{se } 15.00 < c_s \leq 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.40$$

$$\text{se } c_s > 20.00 \text{ N/cm}^2 \Rightarrow \psi = 0.30$$

Il valore della tensione orizzontale " $\sigma_\eta$ " è correlato al valore della pressione verticale " $\sigma_\sigma$ " per mezzo del coefficiente di spinta orizzontale " $K_s$ " secondo la seguente relazione:

$$\sigma_h = \sigma_v \cdot K_s$$

Il valore di " $K_s$ " dipende essenzialmente dal tipo di terreno e dal suo stato d'addensamento nonché dalla tecnologia utilizzata per l'installazione.

Il programma permette di scegliere tra differenti teorie per il calcolo di  $K_s$ .

Opzione 1:

Metodo "Tomlinson (1971)"

$K_s$  può variare da un limite inferiore pari al coefficiente di spinta a riposo " $K_0$ " fino a valori prossimi al coefficiente di spinta passiva " $K_p$ "; i valori proposti sono:

pali trivellati:  $K_s = K_0 = 1 - \text{sen}(\phi)$

pali infissi:  $K_s =$  variabile da:  $K_p = 1 + \text{tg}^2(\phi)$  in sommità fino a  $K_0 = 1 - \text{sen}(\phi)$  alla punta

Opzione 2:

Metodo di "Kulhavy (1983)"

pali trivellati:  $K_s = \alpha K_0$  con  $\alpha$  variabile tra 2/3 e 1

pali infissi:  $K_s = \alpha K_0$  con  $\alpha$  variabile da 3/4, per compattazione del terreno trascurabile, fino a 2, nel caso di compattazione significativa.

Il valore dell'angolo di resistenza al taglio all'interfaccia terreno-palo " $\delta$ " è funzione della scabrezza della superficie del palo e quindi della modalità esecutiva; i valori proposti sono:

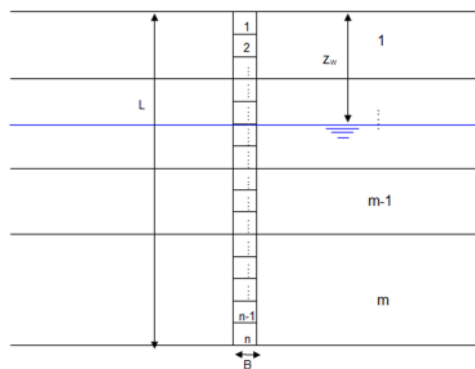
$$\delta = \arctg(\text{tg}(\phi)) \quad (\text{per pali trivellati}) \quad \delta = \arctg\left(\frac{3}{4} \cdot \text{tg}(\phi)\right) \quad (\text{per pali infissi})$$

## DETERMINAZIONE DEI CEDIMENTI DI FONDAZIONI PROFONDE

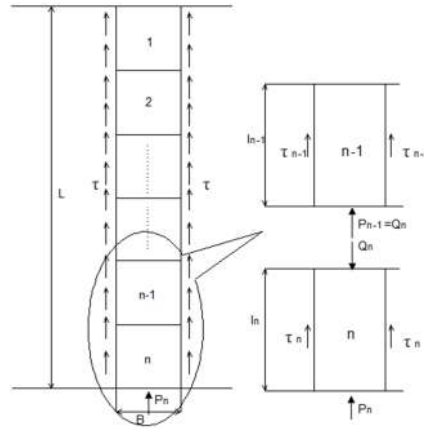
Per la determinazione del comportamento del palo singolo sottoposto a carichi applicati alla sommità, si fa riferimento all'approccio semiempirico delle curve di trasferimento (Coyle e Reese (1966)). Il metodo delle curve di trasferimento è basato su dati provenienti da prove di carico su pali strumentati; elaborando tali dati è possibile costruire le curve di trasferimento che legano la tensione tangenziale mobilizzata all'interfaccia palo-terreno lungo un concio del palo con lo spostamento relativo.

La curva di trasferimento si ottiene con una procedura che prevede i seguenti passi:

1. Suddivisione del palo in n concii



2. Definizione della resistenza limite del palo sulla base delle caratteristiche geometriche e delle caratteristiche del terreno. In presenza di terreno stratificato la resistenza sarà uguale alla sommatoria delle resistenze limite di ogni strato di terreno attraversato dal palo.
3. Si assegna all'estremità inferiore del palo (concio n) un cedimento  $W_p$ .
4. Si considera la curva di trasferimento appropriata (carico alla punta-cedimento) in base alla tecnologia costruttiva e al tipo di terreno presente e, noto il cedimento  $W_p$ , si ricava il carico alla punta  $P_n$ .



5. Si ipotizza che il cedimento alla base del concio  $W_p$  sia uguale al cedimento  $W_n$  che si verifica a metà del concio ( $W_p = W_n$ ).
6. Con il valore di  $W_n$  si entra nell'appropriata curva di trasferimento (carico laterale-cedimento) e, nota la resistenza tangenziale limite, si ricava la tensione tangenziale mobilitata.
7. Il carico  $Q_n$  agente sulla sommità del concio n-esimo è dato da:

$$Q_n = P_n + \tau_n \pi B l$$

Dove:

$$l = \frac{L}{n}$$

8. Si calcola l'abbassamento elastico in corrispondenza della metà del concio n

$$V_n = \frac{Q_n + P_n}{2} \frac{2l}{\pi B^2 E_p}$$

9. Si somma il valore calcolato di  $V_n$  con il valore di cedimento  $W_p$  ipotizzato inizialmente:

$$W_n' = V_n + W_p$$

10. Se il valore  $W_n'$  differisce in maniera significativa dal valore di  $W_n$  si riparte da passo 3 entrando nella curva di trasferimento con il valore di  $W_n'$ .
11. Quando si ottiene la giusta convergenza si passa a considerare il concio (n-1) e così via fino ad arrivare alla testa del palo.

Il risultato di questa procedura è una curva carico-cedimento con la quale è possibile ricavare i cedimenti sulla base del carico applicato.

## SIMBOLOGIA ADOTTATA NEI TABULATI DI CALCOLO

Per maggior chiarezza nella lettura dei tabulati di calcolo viene riportata la descrizione dei simboli principali utilizzati nella stesura degli stessi. Per comodità di lettura la legenda è suddivisa in paragrafi con la stessa modalità in cui sono stampati i tabulati di calcolo.

### ***Dati geometrici degli elementi costituenti le fondazioni profonde***

- X elem. ascissa nel riferimento globale dell'elemento
- Y elem. ordinata nel riferimento globale dell'elemento
- Profon. profondità del piano di posa dell'elemento a partire dal piano campagna
- Base larghezza della sezione trasversale dell'elemento
- Lungh. dimensione dello sviluppo longitudinale dell'elemento
- Altez. altezza della sezione trasversale dell'elemento
- Rotaz. rotazione dell'elemento rispetto al suo baricentro
- Grup. ap. nel caso cui l'elemento faccia parte di una palificata, rappresenta il numero identificativo della stessa
- Ind. Strat. indice della stratigrafia associata all'elemento
- Tip. iniez. tipologia d'iniezione dei micropali ai fini del calcolo della portanza secondo le raccomandazioni di Bustamante e Doix (No iniez. = assenza d'iniezione, Iniez.uni. = iniezione unica, Iniez.rip. = iniezione ripetuta)
- Tip. ter. tipologia di terreno ai fini del calcolo della portanza secondo le raccomandazioni di Bustamante e Doix (Coes. = coesivo, Inc. = incoerente)
- Dia. P. diametro fusto del palo
- Lun. P. lunghezza totale del palo
- Lun. L. lunghezza tratto del palo senza contributo di terreno
- Dis. P. distanza del baricentro del palo dal bordo del plinto
- In. Px interasse principale del palo
- In. Py interasse secondario del palo
- Dia. B. diametro bulbo del palo
- Lun. B. lunghezza della sbulbatura del palo
- E.C.V. coefficiente d'efficienza per carico limite verticale del singolo palo
- E.C.C. coefficiente d'efficienza per carico critico verticale del singolo palo
- E.C.T. coefficiente d'efficienza per carico limite trasversale del singolo palo
- Svin. testa codice di svincolo alla rotazione in testa al palo (0 = non attivo, 1 = attivo)
- Vin. piede codici di vincolo rispettivamente alla rotazione orizzontale, traslazione orizzontale e traslazione verticale applicabili al piede del palo (0 = non attivo, 1 = attivo)
- Asc. X' ascissa del baricentro del singolo palo dell'elemento nel riferimento locale con origine nel baricentro del plinto
- Asc. Y' ordinata del baricentro del singolo palo dell'elemento nel riferimento locale con origine nel baricentro del plinto
- Peso spec. peso specifico del palo
- Mod. El. Pa. modulo elastico normale del palo

### ***Dati di carico degli elementi costituenti le fondazioni profonde***

- Cmb numero della combinazione di carico
- Tipologia tipologia della combinazione di carico
- Sismica flag per l'applicazione della riduzione sismica alle caratteristiche meccaniche del terreno di fondazione per la combinazione di carico in esame
- S. Normale sollecitazione normale agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Tagliante X' sollecitazione tagliante lungo l'asse X' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Tagliante Y' sollecitazione tagliante lungo l'asse Y' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Flessionale X' sollecitazione flessionale lungo l'asse X' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Flessionale Y' sollecitazione flessionale lungo l'asse Y' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Torsionale sollecitazione torsionale agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)

### **Valori di calcolo per le fondazioni profonde**

- Port. punta carico limite verticale alla punta del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Port. lat. carico limite verticale lungo la superficie laterale del fusto del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Port. bulbo carico limite verticale lungo la superficie laterale del bulbo del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- C. Critico carico critico per l'instabilità del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Attr. Neg. attrito negativo agente sul palo (valore su singolo palo)
- Peso Palo peso totale del singolo palo
- Cmb numero e tipologia della combinazione di carico
- S. Norm. sollecitazione normale agente alla testa del palo in esame
- V. V. Com. resistenza a compressione del palo in esame (corretto dal relativo coefficiente di sicurezza)
- V. V. Tra. resistenza a trazione del palo in esame (corretto dal relativo coefficiente di sicurezza)
- Ver. Com. rapporto tra la sollecitazione normale agente alla testa del palo e la sua resistenza a compressione (verifica positiva se il rapporto è < 1.0)
- Ver. Tra. rapporto tra la sollecitazione normale agente alla testa del palo e la sua resistenza a trazione (verifica positiva se il rapporto è < 1.0)
- S. Tagl. sollecitazione tagliante agente alla testa del palo
- S. Fles. sollecitazione flessionale agente alla testa del palo
- V. V. Trs. resistenza trasversale del palo in esame (corretto dal relativo coefficiente di sicurezza)
- Ver. Tra. rapporto tra la sollecitazione tagliante agente alla testa del palo e la sua resistenza trasversale (verifica positiva se il rapporto è < 1.0)
- Ced. V. cedimento verticale in corrispondenza della testa del palo
- Ced. H. cedimento orizzontale in corrispondenza della testa del palo

### **PARAMETRI DI CALCOLO**

#### **Modalità di calcolo della portanza verticale per fondazioni profonde:**

Per elementi con pali: Portanza di punta e laterale

Per elementi con micropali: Portanza di punta e laterale

#### **Metodi di calcolo della portanza di punta per fondazioni profonde:**

Per terreni sciolti: Meyerhof

Per terreni lapidei: Terzaghi

Riduzione di Kishida per pali battuti o trivellati: Sì

Metodo di calcolo del coefficiente di spinta orizzontale  $K_s$ : Tomlinson

#### **Coefficienti parziali e totali di sicurezza per Tensioni Ammissibili e S.L.E. nel calcolo della portanza per fondazioni profonde:**

Coeff. di sicurezza alla punta: 2,60

Coeff. di sicurezza lungo il fusto: 2,60

Coeff. di sicurezza lungo il bulbo: 2,60

Coeff. di sicurezza per palo in trazione: 2,60

#### **Combinazioni di carico:**

##### **APPROCCIO PROGETTUALE TIPO 2 - Comb. (A1+M1+R3)**

Coefficienti parziali e totali di sicurezza per S.L.U. nel calcolo della portanza per pali trivellati:

I coeff. A1 risultano combinati secondo lo schema presente nella relazione di calcolo della struttura.

- Coeff. M1 per  $\tan \phi$  (statico): 1

- Coeff. M1 per  $c'$  (statico): 1

- Coeff. M1 per  $C_u$  (statico): 1

- Coeff. M1 per  $\tan \phi$  (sismico): 1

- Coeff. M1 per  $c'$  (sismico): 1

- Coeff. M1 per  $C_u$  (sismico): 1

- Coeff. R3 base: 1,35

- Coeff. R3 laterale in compressione: 1,15

- Coeff. R3 laterale in trazione: 1,25

Fattore di correlazione: 1,70

## ARCHIVIO STRATIGRAFIE

Indice / Descrizione: 001 / Nuova stratigrafia n. 1

Numero strati: 3

Profondità falda: assente

Strato n.	Quota di riferimento	Spessore	Indice / Descrizione terreno	Attrito Neg.
1	da 0,0 a -700,0 cm	700,0 cm	001 / Orizzonte litotecnico a	Assente
2	da -700,0 a -1600,0 cm	900,0 cm	002 / Orizzonte litotecnico b	Assente
3	da -1600,0 a -8600,0 cm	7000,0 cm	003 / Orizzonte litotecnico c	Assente

## ARCHIVIO TERRENI

Indice / Descrizione terreno: **001 / Orizzonte litotecnico a**

Comportamento del terreno: condizione drenata

Peso Spec.	P. Spec. Sat.	Angolo Res.	Coesione	Mod.Elast.	Mod.Edom.	Dens.Rel.	Poisson	C. Ades.
daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	Gradi°	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	%	%	
1,940 E-3	2,070 E-3	24,600	0,134	100,000	100,000	60,0	0,500	1,00

Indice / Descrizione terreno: **002 / Orizzonte litotecnico b**

Comportamento del terreno: condizione drenata

Peso Spec.	P. Spec. Sat.	Angolo Res.	Coesione	Mod.Elast.	Mod.Edom.	Dens.Rel.	Poisson	C. Ades.
daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	Gradi°	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	%	%	
1,960 E-3	1,990 E-3	22,600	0,266	100,000	100,000	60,0	0,500	1,00

Indice / Descrizione terreno: **003 / Orizzonte litotecnico c**

Comportamento del terreno: condizione drenata

Peso Spec.	P. Spec. Sat.	Angolo Res.	Coesione	Mod.Elast.	Mod.Edom.	Dens.Rel.	Poisson	C. Ades.
daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	Gradi°	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	%	%	
2,010 E-3	2,050 E-3	23,000	0,269	100,000	100,000	60,0	0,500	1,00

## DATI GEOMETRICI DEGLI ELEMENTI COSTITUENTI LE FONDAZIONI PROFONDE

**Elemento: 1 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
51,0	1168,9	0,0	0,0	0,0	0,0	0,00	1	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 2 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
447,7	1080,9	0,0	0,0	0,0	0,0	0,00	2	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 3 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
790,4	862,6	0,0	0,0	0,0	0,0	0,00	3	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 4 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
1037,8	540,2	0,0	0,0	0,0	0,0	0,00	4	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 5 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
1160,0	152,7	0,0	0,0	0,0	0,0	0,00	5	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 6 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
1142,3	-253,2	0,0	0,0	0,0	0,0	0,00	6	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 7 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
803,1	-105,7	0,0	0,0	0,0	0,0	0,00	7	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 8 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
748,3	310,0	0,0	0,0	0,0	0,0	0,00	8	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 9 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
493,1	642,6	0,0	0,0	0,0	0,0	0,00	9	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 10 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
105,7	803,1	0,0	0,0	0,0	0,0	0,00	10	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 11 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
0,0 450,0 0,0 0,0 0,0 0,0 0,00 11 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 12 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
318,2 318,2 0,0 0,0 0,0 0,0 0,00 12 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 13 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
450,0 0,0 0,0 0,0 0,0 0,0 0,00 13 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 14 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
318,2 -318,2 0,0 0,0 0,0 0,0 0,00 14 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 15 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
642,6 -493,1 0,0 0,0 0,0 0,0 0,00 15 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 16 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
986,8 -628,6 0,0 0,0 0,0 0,0 0,00 16 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

Palo Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 17 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.



0,0	-450,0	0,0	0,0	0,0	0,0	0,00	17	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 18 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
-105,7	-803,1	0,0	0,0	0,0	0,0	0,00	18	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 19 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
310,0	-748,3	0,0	0,0	0,0	0,0	0,00	19	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 20 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
712,3	-928,2	0,0	0,0	0,0	0,0	0,00	20	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 21 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
351,8	-1115,8	0,0	0,0	0,0	0,0	0,00	21	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 22 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
-51,0	-1168,9	0,0	0,0	0,0	0,0	0,00	22	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 23 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b> cm	<b>Y elem.</b> cm	<b>Prof.</b> cm	<b>Base</b> cm	<b>Lungh.</b> cm	<b>Altez.</b> cm	<b>Rot.</b> Gradi°	<b>Grup.ap.</b> n.	<b>Ind.strat.</b> n.					
-447,7	-1080,9	0,0	0,0	0,0	0,0	0,00	23	001					
<b>Dia. P.</b> cm	<b>Lun. P.</b> cm	<b>Lun. L.</b> cm	<b>Dist.P.</b> cm	<b>In. Px</b> cm	<b>In. Py</b> cm	<b>Dia. B.</b> cm	<b>Lun. B.</b> cm	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b> codice	<b>Vin.piede</b> codice	
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	
<b>Palo</b> n.	<b>Asc. X'</b> cm	<b>Ord. Y'</b> cm											
1	0,0	0,0											

**Elemento: 24 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-790,4	-862,6	0,0	0,0	0,0	0,0	0,00	24	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 25 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-493,1	-642,6	0,0	0,0	0,0	0,0	0,00	25	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 26 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-318,2	-318,2	0,0	0,0	0,0	0,0	0,00	26	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 27 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-748,3	-310,0	0,0	0,0	0,0	0,0	0,00	27	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 28 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-1037,8	-540,2	0,0	0,0	0,0	0,0	0,00	28	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 29 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-1160,0	-152,7	0,0	0,0	0,0	0,0	0,00	29	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 30 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.
-803,1	105,7	0,0	0,0	0,0	0,0	0,00	30	001

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice

100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 31 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-450,0 0,0 0,0 0,0 0,0 0,0 0,00 31 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 32 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-318,2 318,2 0,0 0,0 0,0 0,0 0,00 32 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 33 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-642,6 493,1 0,0 0,0 0,0 0,0 0,00 33 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 34 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-986,8 628,6 0,0 0,0 0,0 0,0 0,00 34 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 35 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-1142,3 253,2 0,0 0,0 0,0 0,0 0,00 35 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 36 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.  
cm cm cm cm cm cm Gradi° n. n.  
-712,3 928,2 0,0 0,0 0,0 0,0 0,00 36 001

Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede  
cm cm cm cm cm cm cm cm cm cm E.C.V. E.C.C. E.C.T. codice codice  
100,0 3000,0 0,0 0,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo** Asc. X' Ord. Y'  
n. cm cm  
1 0,0 0,0

**Elemento: 37 - Palo singolo - Tipologia pali: trivellati**

X elem. Y elem. Prof. Base Lungh. Altezz. Rot. Grup.ap. Ind.strat.

cm	cm	cm	cm	cm	cm	Gradi°	n.	n.						
-310,0	748,3	0,0	0,0	0,0	0,0	0,00	37	001						
<b>Dia. P.</b>	<b>Lun. P.</b>	<b>Lun. L.</b>	<b>Dist.P.</b>	<b>In. Px</b>	<b>In. Py</b>	<b>Dia. B.</b>	<b>Lun. B.</b>	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b>	<b>Vin.piede</b>		
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice		
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0		
<b>Palo</b>	<b>Asc. X'</b>	<b>Ord. Y'</b>												
n.	cm	cm												
1	0,0	0,0												

**Elemento: 38 - Palo singolo - Tipologia pali: trivellati**

<b>X elem.</b>	<b>Y elem.</b>	<b>Prof.</b>	<b>Base</b>	<b>Lungh.</b>	<b>Altez.</b>	<b>Rot.</b>	<b>Grup.ap.</b>	<b>Ind.strat.</b>						
cm	cm	cm	cm	cm	cm	Gradi°	n.	n.						
-351,8	1115,8	0,0	0,0	0,0	0,0	0,00	38	001						
<b>Dia. P.</b>	<b>Lun. P.</b>	<b>Lun. L.</b>	<b>Dist.P.</b>	<b>In. Px</b>	<b>In. Py</b>	<b>Dia. B.</b>	<b>Lun. B.</b>	<b>E.C.V.</b>	<b>E.C.C.</b>	<b>E.C.T.</b>	<b>Svin.testa</b>	<b>Vin.piede</b>		
cm	cm	cm	cm	cm	cm	cm	cm				codice	codice		
100,0	3000,0	0,0	0,0	0,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0		
<b>Palo</b>	<b>Asc. X'</b>	<b>Ord. Y'</b>												
n.	cm	cm												
1	0,0	0,0												

**VALORI DI CALCOLO DELLA PORTANZA PER FONDAZIONI PROFONDE**

**Elemento: 1 - Palo singolo**

$N_q = 40.715$ ,  $\sigma_{punta} = 5.936$ ,  $\phi = 20.0$ ,  $N_c = 199.857$ ,  $c_{punta} = 0.269$

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

<b>Cmb.</b>	<b>Tipo</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>N lim</b>	<b>Ver.N</b>	<b>Stato</b>
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-148300.0	-1433177.0	0,103	Ok

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-148300.0	5168.3	3246.1	1682000.0	14160000.0

**Elemento: 2 - Palo singolo**

$N_q = 40.715$ ,  $\sigma_{punta} = 5.936$ ,  $\phi = 20.0$ ,  $N_c = 199.857$ ,  $c_{punta} = 0.269$

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

<b>Cmb.</b>	<b>Tipo</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>N lim</b>	<b>Ver.N</b>	<b>Stato</b>
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-178600.0	-1433177.0	0,125	Ok

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-178600.0	6720.4	4007.3	2074000.0	13360000.0

**Elemento: 3 - Palo singolo**

$N_q = 40.715$ ,  $\sigma_{punta} = 5.936$ ,  $\phi = 20.0$ ,  $N_c = 199.857$ ,  $c_{punta} = 0.269$

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

<b>Cmb.</b>	<b>Tipo</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>N lim</b>	<b>Ver.N</b>	<b>Stato</b>
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-204800.0	-1433177.0	0,143	Ok

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-204800.0	8530.7	3863.9	1999000.0	12420000.0

**Elemento: 4 - Palo singolo**

$N_q = 40.715$ ,  $\sigma_{punta} = 5.936$ ,  $\phi = 20.0$ ,  $N_c = 199.857$ ,  $c_{punta} = 0.269$

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

<b>Cmb.</b>	<b>Tipo</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>N lim</b>	<b>Ver.N</b>	<b>Stato</b>
n.		n.	cm	cm	daN	daN		
005	SLU STR	1	0.000	0.000	-223700.0	-1433177.0	0,156	Ok

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
005	SLU STR	No	-223700.0	10220.0	2724.3	1409000.0	11540000.0

**Elemento: 5 - Palo singolo**

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-233000.0	-1433177.0	0,163	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-233000.0	11190.0	775.8	401400.0	11050000.0

#### Elemento: 6 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
005	SLU STR	1	0.000	0.000	-231700.0	-1433177.0	0,162	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
005	SLU STR	No	-231700.0	11010.0	-1315.4	-679900.0	11140000.0

#### Elemento: 7 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-208200.0	-1433177.0	0,145	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-208200.0	10210.0	-846.1	-437200.0	11550000.0

#### Elemento: 8 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-204000.0	-1433177.0	0,142	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-204000.0	9600.5	2387.8	1235000.0	11870000.0

#### Elemento: 9 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-184100.0	-1433177.0	0,128	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-184100.0	6943.7	4111.2	2127000.0	13250000.0

#### Elemento: 10 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
005	SLU STR	1	0.000	0.000	-154000.0	-1433177.0	0,107	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
005	SLU STR	No	-154000.0	4188.9	3520.9	1823000.0	14670000.0

#### Elemento: 11 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269  
 Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-147700.0	-1433177.0	0,103	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-147700.0	221.7	1223.7	634100.0	2510000.0

#### Elemento: 12 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269  
 Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-172200.0	-1433177.0	0,120	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-172200.0	2166.4	1118.7	579300.0	15720000.0

#### Elemento: 13 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269  
 Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-182700.0	-1433177.0	0,127	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-182700.0	2892.4	-5.6	-2392.9	15350000.0

#### Elemento: 14 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269  
 Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-172200.0	-1433177.0	0,120	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-172200.0	2167.6	-1125.2	-581500.0	15720000.0

#### Elemento: 15 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269  
 Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
005	SLU STR	1	0.000	0.000	-195800.0	-1433177.0	0,137	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
005	SLU STR	No	-195800.0	8336.7	-3530.9	-1826000.0	12520000.0

#### Elemento: 16 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269  
 Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
005	SLU STR	1	0.000	0.000	-219800.0	-1433177.0	0,153	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
005	SLU STR	No	-219800.0	9818.5	-3086.4	-1596000.0	11750000.0

#### Elemento: 17 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-147700.0	-1433177.0	0,103	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-147700.0	223.0	-1222.9	-633000.0	2509000.0

#### Elemento: 18 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-145300.0	-1433177.0	0,101	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-145300.0	231.3	-3045.3	-1577000.0	2504000.0

#### Elemento: 19 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
005	SLU STR	1	0.000	0.000	-169900.0	-1433177.0	0,119	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
005	SLU STR	No	-169900.0	5409.6	-4069.7	-2105000.0	14040000.0

#### Elemento: 20 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-198800.0	-1433177.0	0,139	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-198800.0	8136.8	-3986.7	-2062000.0	12630000.0

#### Elemento: 21 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-171300.0	-1433177.0	0,120	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
001	SLU STR	No	-171300.0	6233.2	-3860.1	-1997000.0	13610000.0

#### Elemento: 22 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-144600.0	-1433177.0	0,101	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-144600.0	675.8	-3158.2	-1635000.0	2274000.0

#### Elemento: 23 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-139900.0	-1433177.0	0,098	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-139900.0	-313.1	-2771.6	-1435000.0	2786000.0

#### Elemento: 24 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-135900.0	-1433177.0	0,095	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-135900.0	-1114.9	-2115.1	-1095000.0	3201000.0

#### Elemento: 25 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-140600.0	-1433177.0	0,098	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-140600.0	-1078.4	-2234.9	-1157000.0	3183000.0

#### Elemento: 26 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-143700.0	-1433177.0	0,100	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-143700.0	-611.6	-819.7	-424200.0	2942000.0

#### Elemento: 27 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-137500.0	-1433177.0	0,096	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-137500.0	-1808.8	-1011.0	-523400.0	3561000.0

#### Elemento: 28 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-132900.0	-1433177.0	0,093	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-132900.0	-1623.3	-1261.6	-653300.0	3465000.0

#### Elemento: 29 - Palo singolo



Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-131500.0	-1433177.0	0,092	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-131500.0	-1870.8	-355.0	-183500.0	3593000.0

#### Elemento: 30 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-136900.0	-1433177.0	0,096	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-136900.0	-1966.2	350.4	181900.0	3643000.0

#### Elemento: 31 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-142100.0	-1433177.0	0,099	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-142100.0	-913.0	0.3	541.4	3098000.0

#### Elemento: 32 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-143700.0	-1433177.0	0,100	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-143700.0	-612.3	816.2	423200.0	2942000.0

#### Elemento: 33 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-138800.0	-1433177.0	0,097	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-138800.0	-1542.6	1657.2	858900.0	3423000.0

#### Elemento: 34 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-133500.0	-1433177.0	0,093	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-133500.0	-1525.4	1492.2	773600.0	3414000.0

#### Elemento: 35 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-131700.0	-1433177.0	0,092	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-131700.0	-1834.5	596.2	309400.0	3574000.0

#### Elemento: 36 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-136800.0	-1433177.0	0,095	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-136800.0	-939.9	2294.3	1189000.0	3111000.0

#### Elemento: 37 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-142800.0	-1433177.0	0,100	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-142800.0	-496.2	2714.0	1406000.0	2881000.0

#### Elemento: 38 - Palo singolo

Nq = 40.715,  $\sigma_{punta}$  = 5.936,  $\phi$  = 20.0, Nc = 199.857, c punta = 0.269

Port. lat. = 940376.5 daN, Port. punta = 2320408.0 daN, P.P.Palo = 58904.9 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
002	SLU STR	1	0.000	0.000	-141100.0	-1433177.0	0,098	Ok

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
002	SLU STR	No	-141100.0	-97.0	2891.9	1498000.0	2674000.0

### VALORI DI CALCOLO DEI CEDIMENTI PER FONDAZIONI PROFONDE

#### Elemento: 1 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-124100.0	0.127

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-124100.0	3589.5	3016.5	1563000.0	10410000.0

#### Elemento: 2 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-146300.0	0.150

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-146300.0	4941.9	3526.7	1826000.0	9712000.0

#### Elemento: 3 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-165400.0	0.170

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-165400.0	6457.1	3303.8	1710000.0	8928000.0

#### Elemento: 4 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-179200.0	0.184

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-179200.0	7862.1	2289.9	1185000.0	8202000.0

#### Elemento: 5 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-186100.0	0.191

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-186100.0	8612.2	652.2	337500.0	7814000.0

#### Elemento: 6 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-185100.0	0.190

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-185100.0	8499.0	-1102.3	-569900.0	7873000.0

#### Elemento: 7 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-168200.0	0.173

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-168200.0	7888.2	-703.6	-363700.0	8190000.0

#### Elemento: 8 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-165100.0	0.169

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-165100.0	7394.5	1993.2	1031000.0	8445000.0

#### Elemento: 9 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-150600.0	0.155

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-150600.0	5247.2	3517.8	1821000.0	9556000.0

#### Elemento: 10 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-128500.0	0.132

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-128500.0	2955.6	3210.9	1663000.0	10740000.0

#### Elemento: 11 - Palo singolo

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-123800.0	0.127

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-123800.0	277.6	1137.2	589400.0	10540000.0

**Elemento: 12 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-142000.0	0.146

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-142000.0	1529.7	993.1	514300.0	11480000.0

**Elemento: 13 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-149700.0	0.154

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-149700.0	2133.8	-4.4	-1880.5	11170000.0

**Elemento: 14 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-142100.0	0.146

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-142100.0	1530.5	-997.9	-516000.0	11480000.0

**Elemento: 15 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-159100.0	0.163

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-159100.0	6416.9	-2974.2	-1538000.0	8951000.0

**Elemento: 16 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-176400.0	0.181

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-176400.0	7538.6	-2604.4	-1347000.0	8369000.0

**Elemento: 17 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-123800.0	0.127

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-123800.0	277.0	-1138.5	-589200.0	10540000.0

**Elemento: 18 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-117600.0	0.121

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-117600.0	1643.0	-2611.5	-1352000.0	9831000.0

**Elemento: 19 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
003 (SLE freq)	1	0.000	0.000	-140100.0	0.144

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
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n.			daN	daN	daN	daN cm	daN cm
003	SLE freq	No	-140100.0	4010.7	-3569.9	-1847000.0	10200000.0

**Elemento: 20 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
003 (SLE freq)	1	0.000	0.000	-161000.0	0.165		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
003 SLE freq	No	-161000.0	6125.1	-3428.9	-1774000.0	9100000.0	

**Elemento: 21 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
003 (SLE freq)	1	0.000	0.000	-140900.0	0.145		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
003 SLE freq	No	-140900.0	4533.7	-3437.4	-1779000.0	9923000.0	

**Elemento: 22 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-119100.0	0.122		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
004 SLE q.p.	No	-119100.0	2655.4	-2878.8	-1491000.0	9305000.0	

**Elemento: 23 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-99700.0	0.102		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
004 SLE q.p.	No	-99700.0	1985.9	-2023.2	-1048000.0	9652000.0	

**Elemento: 24 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-82960.0	0.085		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
004 SLE q.p.	No	-82960.0	1682.1	-1195.6	-619900.0	9811000.0	

**Elemento: 25 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-98260.0	0.101		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
004 SLE q.p.	No	-98260.0	1038.4	-1256.1	-651000.0	10140000.0	

**Elemento: 26 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-107600.0	0.110		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	
004 SLE q.p.	No	-107600.0	-398.6	-628.2	-325100.0	10890000.0	

**Elemento: 27 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-85540.0	0.088		

Sollecitazioni:

<b>Cmb Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>	
n.		daN	daN	daN	daN cm	daN cm	

004 SLE q.p. No -85540.0 1197.3 -340.8 -176600.0 10060000.0

**Elemento: 28 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-70870.0	0.073

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-70870.0	1743.7	-533.2	-276600.0	9779000.0

**Elemento: 29 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-64890.0	0.067

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-64890.0	1813.9	-145.6	-75040.0	9744000.0

**Elemento: 30 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-82810.0	0.085

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-82810.0	1248.3	107.2	56460.0	10040000.0

**Elemento: 31 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-100900.0	0.104

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-100900.0	-493.1	-2.0	-461.3	10940000.0

**Elemento: 32 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-107600.0	0.110

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-107600.0	-395.2	624.0	324100.0	10890000.0

**Elemento: 33 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-90810.0	0.093

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-90810.0	1029.6	720.5	374800.0	10150000.0

**Elemento: 34 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-73350.0	0.075

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-73350.0	1724.0	684.3	356400.0	9789000.0

**Elemento: 35 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
004 (SLE q.p.)	1	0.000	0.000	-65760.0	0.067

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-65760.0	1803.3	235.7	123400.0	9749000.0

**Elemento: 36 - Palo singolo**

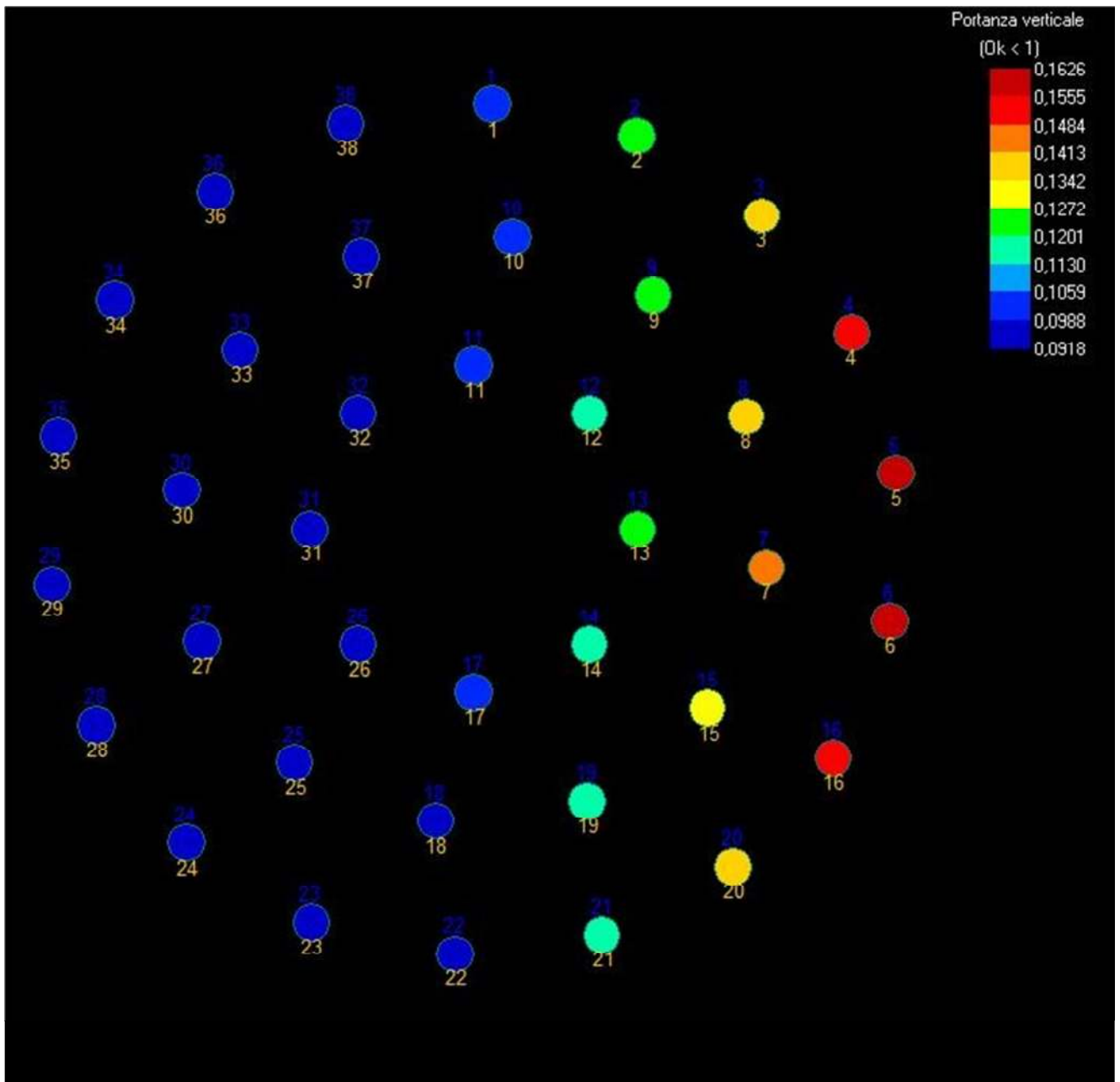
<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-86770.0	0.089		
Sollecitazioni:							
<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-86770.0	1751.2	1385.0	719300.0	9774000.0

**Elemento: 37 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-107400.0	0.110		
Sollecitazioni:							
<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-107400.0	1188.6	1920.1	995700.0	10070000.0

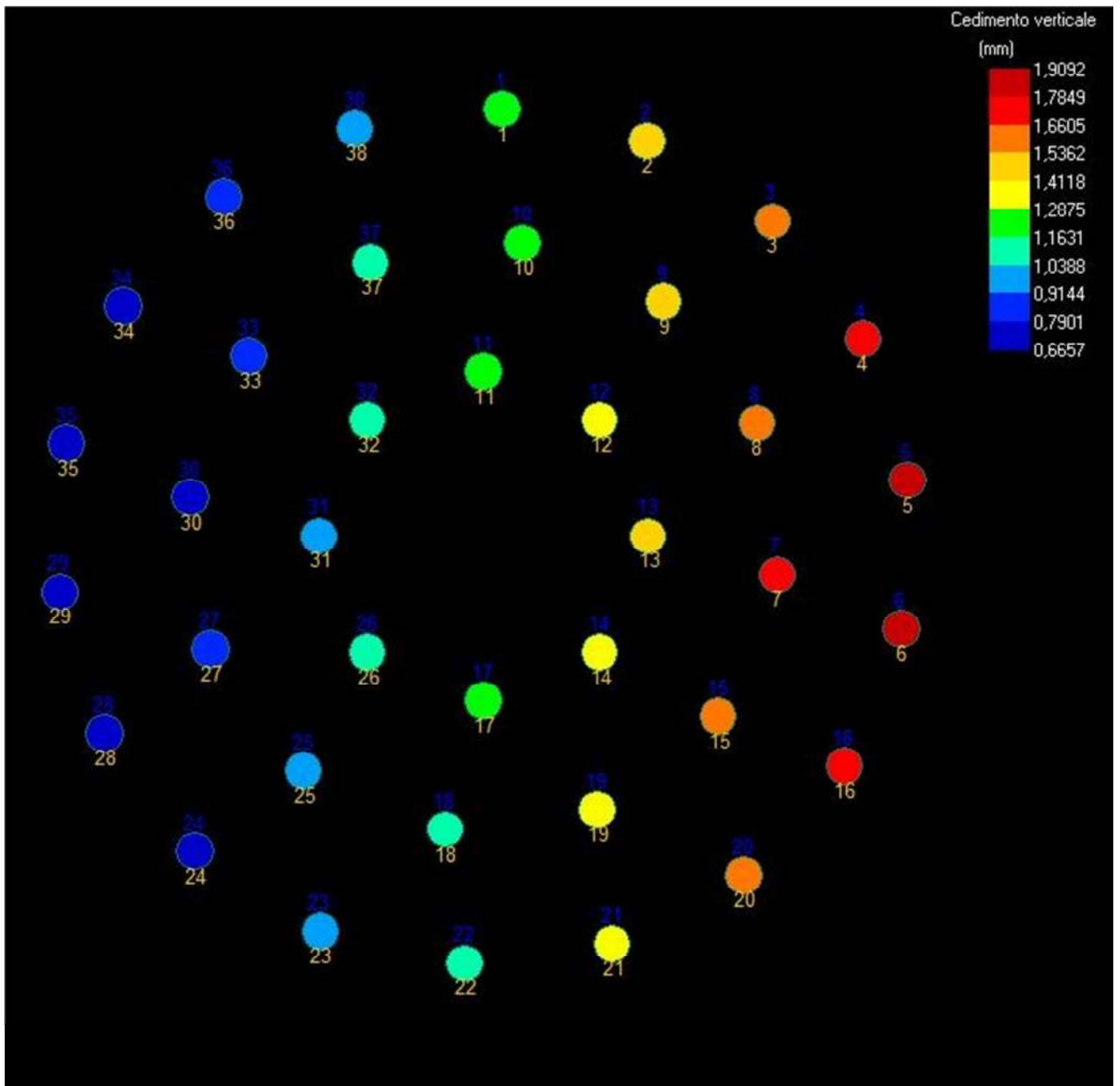
**Elemento: 38 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>		
n.	n.	cm	cm	daN	cm		
004 (SLE q.p.)	1	0.000	0.000	-104400.0	0.107		
Sollecitazioni:							
<b>Cmb</b>	<b>Tipo</b>	<b>Sism.</b>	<b>N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.			daN	daN	daN	daN cm	daN cm
004	SLE q.p.	No	-104400.0	2066.1	2240.0	1162000.0	9610000.0



Verifica di carico limite per singolo palo nelle combinazioni di carico più gravose





Cedimenti per singolo palo nelle combinazioni di carico più gravose