



Wald chi2(23) = 673.09

```

name: RERTOT_JIMF_VIMM
log: C:\Users\jamel\Dropbox\Documents\CONFERENCES\2025-09-09-VIMM\stata\JIMF\RERTOT_JIMF_VIMM.smc1
log type: smc1
opened on: 3 Sep 2025, 20:16:29

```

```

. use datafintransformed-22-11-17, clear

```

```

. *** Fig. 2. 3-D plot for the buffer effect.

```

```

. **One lag for reserves + Balanced panel**
. areg lreer lgdppk_m100 lgovexp c.etot#c.l1lres yr* ///
> if count_lgovexp==20, ///
> absorb(cn) vce(bootstrap, reps(200))
note: yr2001 omitted because of collinearity.
note: yr2020 omitted because of collinearity.
(running areg on estimation sample)

```

```

Bootstrap replications (200): .....10.....20.....30.....40.....50.....60.....70.....
> ..160.....170.....180.....190.....200 done

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```

Linear regression, absorbing indicators      Number of obs   = 1,900
Absorbed variable: cn                      No. of categories = 100
                                           Replications    = 200
                                           Wald chi2(23)   = 673.09
                                           Prob > chi2     = 0.0000
                                           R-squared       = 0.5872
                                           Adj R-squared   = 0.5589
                                           Root MSE       = 0.1062

```

lreer	Observed coefficient	Bootstrap std. err.	z	P> z	Normal-based [95% conf. interval]	
lgdppk_m100	.6961449	.0654919	10.63	0.000	.5677831	.8245068
lgovexp	.0763234	.0311448	2.45	0.014	.0152807	.137366
etot	.0103211	.0121232	0.85	0.395	-.0134399	.034082
L1lres	.0041584	.007677	0.54	0.588	-.0108881	.019205
c.etot#c.L1lres	-.0106418	.0041772	-2.55	0.011	-.0188291	-.0024546
yr2001	0 (omitted)					
yr2002	-.1026613	.0220683	-4.65	0.000	-.1459144	-.0594083
yr2003	-.1355645	.0208142	-6.51	0.000	-.1763595	-.0947696
yr2004	-.1324149	.0216369	-6.12	0.000	-.1748225	-.0900072
yr2005	-.0990127	.0220283	-4.49	0.000	-.1421874	-.0558381
yr2006	-.0737178	.0210308	-3.51	0.000	-.1149373	-.0324982
yr2007	-.0469793	.0198617	-2.37	0.018	-.0859076	-.0080511
yr2008	-.007597	.0191577	-0.40	0.692	-.0451455	.0299515
yr2009	-.0153221	.0186919	-0.82	0.412	-.0519575	.0213133
yr2010	.007401	.0185228	0.40	0.689	-.028903	.043705
yr2011	.0134371	.0182174	0.74	0.461	-.0222684	.0491426
yr2012	.0241441	.0200294	1.21	0.228	-.0151127	.063401
yr2013	.0362277	.0193973	1.87	0.062	-.0017903	.0742456
yr2014	.0286857	.0191679	1.50	0.135	-.0088828	.0662541
yr2015	.0278656	.0199845	1.39	0.163	-.0113032	.0670345
yr2016	.0133058	.0200606	0.66	0.507	-.0260122	.0526238
yr2017	.0242445	.0203379	1.19	0.233	-.0156169	.064106
yr2018	.0161068	.018995	0.85	0.396	-.0211226	.0533363
yr2019	.0165844	.0205676	0.81	0.420	-.0237273	.0568961
yr2020	0 (omitted)					
_cons	1.204825	.3588018	3.36	0.001	.501587	1.908064

```
.
. // Create predictions for the interaction and store them
. margins, at( L1lres=(1(0.1)5) etot=(1(0.1)5))
```

Predictive margins
Model VCE: **Bootstrap**

Number of obs = **1,900**

Expression: **Linear prediction, predict()**

```
1._at:  etot = 1
        L1lres = 1
2._at:  etot = 1
        L1lres = 1.1
3._at:  etot = 1
        L1lres = 1.2
4._at:  etot = 1
        L1lres = 1.3
5._at:  etot = 1
        L1lres = 1.4
6._at:  etot = 1
        L1lres = 1.5
7._at:  etot = 1
        L1lres = 1.6
8._at:  etot = 1
        L1lres = 1.7
9._at:  etot = 1
        L1lres = 1.8
10._at: etot = 1
        L1lres = 1.9
11._at: etot = 1
        L1lres = 2
12._at: etot = 1
        L1lres = 2.1
13._at: etot = 1
        L1lres = 2.2
14._at: etot = 1
        L1lres = 2.3
15._at: etot = 1
        L1lres = 2.4
16._at: etot = 1
        L1lres = 2.5
17._at: etot = 1
        L1lres = 2.6
18._at: etot = 1
        L1lres = 2.7
19._at: etot = 1
        L1lres = 2.8
20._at: etot = 1
        L1lres = 2.9
21._at: etot = 1
        L1lres = 3
22._at: etot = 1
        L1lres = 3.1
23._at: etot = 1
        L1lres = 3.2
24._at: etot = 1
        L1lres = 3.3
25._at: etot = 1
        L1lres = 3.4
26._at: etot = 1
        L1lres = 3.5
27._at: etot = 1
        L1lres = 3.6
28._at: etot = 1
        L1lres = 3.7
29._at: etot = 1
        L1lres = 3.8
30._at: etot = 1
        L1lres = 3.9
31._at: etot = 1
        L1lres = 4
32._at: etot = 1
        L1lres = 4.1
33._at: etot = 1
```

```
L1lres = 4.2
34._at: etot = 1
        L1lres = 4.3
35._at: etot = 1
        L1lres = 4.4
36._at: etot = 1
        L1lres = 4.5
37._at: etot = 1
        L1lres = 4.6
38._at: etot = 1
        L1lres = 4.7
39._at: etot = 1
        L1lres = 4.8
40._at: etot = 1
        L1lres = 4.9
41._at: etot = 1
        L1lres = 5
42._at: etot = 1.1
        L1lres = 1
43._at: etot = 1.1
        L1lres = 1.1
44._at: etot = 1.1
        L1lres = 1.2
45._at: etot = 1.1
        L1lres = 1.3
46._at: etot = 1.1
        L1lres = 1.4
47._at: etot = 1.1
        L1lres = 1.5
48._at: etot = 1.1
        L1lres = 1.6
49._at: etot = 1.1
        L1lres = 1.7
50._at: etot = 1.1
        L1lres = 1.8
51._at: etot = 1.1
        L1lres = 1.9
52._at: etot = 1.1
        L1lres = 2
53._at: etot = 1.1
        L1lres = 2.1
54._at: etot = 1.1
        L1lres = 2.2
55._at: etot = 1.1
        L1lres = 2.3
56._at: etot = 1.1
        L1lres = 2.4
57._at: etot = 1.1
        L1lres = 2.5
58._at: etot = 1.1
        L1lres = 2.6
59._at: etot = 1.1
        L1lres = 2.7
60._at: etot = 1.1
        L1lres = 2.8
61._at: etot = 1.1
        L1lres = 2.9
62._at: etot = 1.1
        L1lres = 3
63._at: etot = 1.1
        L1lres = 3.1
64._at: etot = 1.1
        L1lres = 3.2
65._at: etot = 1.1
        L1lres = 3.3
66._at: etot = 1.1
        L1lres = 3.4
67._at: etot = 1.1
        L1lres = 3.5
68._at: etot = 1.1
        L1lres = 3.6
69._at: etot = 1.1
        L1lres = 3.7
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70._at: etot = 1.1
L1lres = 3.8
71._at: etot = 1.1
L1lres = 3.9
72._at: etot = 1.1
L1lres = 4
73._at: etot = 1.1
L1lres = 4.1
74._at: etot = 1.1
L1lres = 4.2
75._at: etot = 1.1
L1lres = 4.3
76._at: etot = 1.1
L1lres = 4.4
77._at: etot = 1.1
L1lres = 4.5
78._at: etot = 1.1
L1lres = 4.6
79._at: etot = 1.1
L1lres = 4.7
80._at: etot = 1.1
L1lres = 4.8
81._at: etot = 1.1
L1lres = 4.9
82._at: etot = 1.1
L1lres = 5
83._at: etot = 1.2
L1lres = 1
84._at: etot = 1.2
L1lres = 1.1
85._at: etot = 1.2
L1lres = 1.2
86._at: etot = 1.2
L1lres = 1.3
87._at: etot = 1.2
L1lres = 1.4
88._at: etot = 1.2
L1lres = 1.5
89._at: etot = 1.2
L1lres = 1.6
90._at: etot = 1.2
L1lres = 1.7
91._at: etot = 1.2
L1lres = 1.8
92._at: etot = 1.2
L1lres = 1.9
93._at: etot = 1.2
L1lres = 2
94._at: etot = 1.2
L1lres = 2.1
95._at: etot = 1.2
L1lres = 2.2
96._at: etot = 1.2
L1lres = 2.3
97._at: etot = 1.2
L1lres = 2.4
98._at: etot = 1.2
L1lres = 2.5
99._at: etot = 1.2
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100._at: etot = 1.2
L1lres = 2.7
101._at: etot = 1.2
L1lres = 2.8
102._at: etot = 1.2
L1lres = 2.9
103._at: etot = 1.2
L1lres = 3
104._at: etot = 1.2
L1lres = 3.1
105._at: etot = 1.2
L1lres = 3.2
106._at: etot = 1.2

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        L1lres = 3.3
107._at: etot  = 1.2
        L1lres = 3.4
108._at: etot  = 1.2
        L1lres = 3.5
109._at: etot  = 1.2
        L1lres = 3.6
110._at: etot  = 1.2
        L1lres = 3.7
111._at: etot  = 1.2
        L1lres = 3.8
112._at: etot  = 1.2
        L1lres = 3.9
113._at: etot  = 1.2
        L1lres = 4
114._at: etot  = 1.2
        L1lres = 4.1
115._at: etot  = 1.2
        L1lres = 4.2
116._at: etot  = 1.2
        L1lres = 4.3
117._at: etot  = 1.2
        L1lres = 4.4
118._at: etot  = 1.2
        L1lres = 4.5
119._at: etot  = 1.2
        L1lres = 4.6
120._at: etot  = 1.2
        L1lres = 4.7
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        L1lres = 4.8
122._at: etot  = 1.2
        L1lres = 4.9
123._at: etot  = 1.2
        L1lres = 5
124._at: etot  = 1.3
        L1lres = 1
125._at: etot  = 1.3
        L1lres = 1.1
126._at: etot  = 1.3
        L1lres = 1.2
127._at: etot  = 1.3
        L1lres = 1.3
128._at: etot  = 1.3
        L1lres = 1.4
129._at: etot  = 1.3
        L1lres = 1.5
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        L1lres = 1.6
131._at: etot  = 1.3
        L1lres = 1.7
132._at: etot  = 1.3
        L1lres = 1.8
133._at: etot  = 1.3
        L1lres = 1.9
134._at: etot  = 1.3
        L1lres = 2
135._at: etot  = 1.3
        L1lres = 2.1
136._at: etot  = 1.3
        L1lres = 2.2
137._at: etot  = 1.3
        L1lres = 2.3
138._at: etot  = 1.3
        L1lres = 2.4
139._at: etot  = 1.3
        L1lres = 2.5
140._at: etot  = 1.3
        L1lres = 2.6
141._at: etot  = 1.3
        L1lres = 2.7
142._at: etot  = 1.3
        L1lres = 2.8

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143._at: etot  = 1.3
        L1lres = 2.9
144._at: etot  = 1.3
        L1lres = 3
145._at: etot  = 1.3
        L1lres = 3.1
146._at: etot  = 1.3
        L1lres = 3.2
147._at: etot  = 1.3
        L1lres = 3.3
148._at: etot  = 1.3
        L1lres = 3.4
149._at: etot  = 1.3
        L1lres = 3.5
150._at: etot  = 1.3
        L1lres = 3.6
151._at: etot  = 1.3
        L1lres = 3.7
152._at: etot  = 1.3
        L1lres = 3.8
153._at: etot  = 1.3
        L1lres = 3.9
154._at: etot  = 1.3
        L1lres = 4
155._at: etot  = 1.3
        L1lres = 4.1
156._at: etot  = 1.3
        L1lres = 4.2
157._at: etot  = 1.3
        L1lres = 4.3
158._at: etot  = 1.3
        L1lres = 4.4
159._at: etot  = 1.3
        L1lres = 4.5
160._at: etot  = 1.3
        L1lres = 4.6
161._at: etot  = 1.3
        L1lres = 4.7
162._at: etot  = 1.3
        L1lres = 4.8
163._at: etot  = 1.3
        L1lres = 4.9
164._at: etot  = 1.3
        L1lres = 5
165._at: etot  = 1.4
        L1lres = 1
166._at: etot  = 1.4
        L1lres = 1.1
167._at: etot  = 1.4
        L1lres = 1.2
168._at: etot  = 1.4
        L1lres = 1.3
169._at: etot  = 1.4
        L1lres = 1.4
170._at: etot  = 1.4
        L1lres = 1.5
171._at: etot  = 1.4
        L1lres = 1.6
172._at: etot  = 1.4
        L1lres = 1.7
173._at: etot  = 1.4
        L1lres = 1.8
174._at: etot  = 1.4
        L1lres = 1.9
175._at: etot  = 1.4
        L1lres = 2
176._at: etot  = 1.4
        L1lres = 2.1
177._at: etot  = 1.4
        L1lres = 2.2
178._at: etot  = 1.4
        L1lres = 2.3
179._at: etot  = 1.4

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```

        L1lres = 2.4
180._at: etot  = 1.4
        L1lres = 2.5
181._at: etot  = 1.4
        L1lres = 2.6
182._at: etot  = 1.4
        L1lres = 2.7
183._at: etot  = 1.4
        L1lres = 2.8
184._at: etot  = 1.4
        L1lres = 2.9
185._at: etot  = 1.4
        L1lres = 3
186._at: etot  = 1.4
        L1lres = 3.1
187._at: etot  = 1.4
        L1lres = 3.2
188._at: etot  = 1.4
        L1lres = 3.3
189._at: etot  = 1.4
        L1lres = 3.4
190._at: etot  = 1.4
        L1lres = 3.5
191._at: etot  = 1.4
        L1lres = 3.6
192._at: etot  = 1.4
        L1lres = 3.7
193._at: etot  = 1.4
        L1lres = 3.8
194._at: etot  = 1.4
        L1lres = 3.9
195._at: etot  = 1.4
        L1lres = 4
196._at: etot  = 1.4
        L1lres = 4.1
197._at: etot  = 1.4
        L1lres = 4.2
198._at: etot  = 1.4
        L1lres = 4.3
199._at: etot  = 1.4
        L1lres = 4.4
200._at: etot  = 1.4
        L1lres = 4.5
201._at: etot  = 1.4
        L1lres = 4.6
202._at: etot  = 1.4
        L1lres = 4.7
203._at: etot  = 1.4
        L1lres = 4.8
204._at: etot  = 1.4
        L1lres = 4.9
205._at: etot  = 1.4
        L1lres = 5
206._at: etot  = 1.5
        L1lres = 1
207._at: etot  = 1.5
        L1lres = 1.1
208._at: etot  = 1.5
        L1lres = 1.2
209._at: etot  = 1.5
        L1lres = 1.3
210._at: etot  = 1.5
        L1lres = 1.4
211._at: etot  = 1.5
        L1lres = 1.5
212._at: etot  = 1.5
        L1lres = 1.6
213._at: etot  = 1.5
        L1lres = 1.7
214._at: etot  = 1.5
        L1lres = 1.8
215._at: etot  = 1.5
        L1lres = 1.9

```

```

216._at: etot  = 1.5
          L1lres = 2
217._at: etot  = 1.5
          L1lres = 2.1
218._at: etot  = 1.5
          L1lres = 2.2
219._at: etot  = 1.5
          L1lres = 2.3
220._at: etot  = 1.5
          L1lres = 2.4
221._at: etot  = 1.5
          L1lres = 2.5
222._at: etot  = 1.5
          L1lres = 2.6
223._at: etot  = 1.5
          L1lres = 2.7
224._at: etot  = 1.5
          L1lres = 2.8
225._at: etot  = 1.5
          L1lres = 2.9
226._at: etot  = 1.5
          L1lres = 3
227._at: etot  = 1.5
          L1lres = 3.1
228._at: etot  = 1.5
          L1lres = 3.2
229._at: etot  = 1.5
          L1lres = 3.3
230._at: etot  = 1.5
          L1lres = 3.4
231._at: etot  = 1.5
          L1lres = 3.5
232._at: etot  = 1.5
          L1lres = 3.6
233._at: etot  = 1.5
          L1lres = 3.7
234._at: etot  = 1.5
          L1lres = 3.8
235._at: etot  = 1.5
          L1lres = 3.9
236._at: etot  = 1.5
          L1lres = 4
237._at: etot  = 1.5
          L1lres = 4.1
238._at: etot  = 1.5
          L1lres = 4.2
239._at: etot  = 1.5
          L1lres = 4.3
240._at: etot  = 1.5
          L1lres = 4.4
241._at: etot  = 1.5
          L1lres = 4.5
242._at: etot  = 1.5
          L1lres = 4.6
243._at: etot  = 1.5
          L1lres = 4.7
244._at: etot  = 1.5
          L1lres = 4.8
245._at: etot  = 1.5
          L1lres = 4.9
246._at: etot  = 1.5
          L1lres = 5
247._at: etot  = 1.6
          L1lres = 1
248._at: etot  = 1.6
          L1lres = 1.1
249._at: etot  = 1.6
          L1lres = 1.2
250._at: etot  = 1.6
          L1lres = 1.3
251._at: etot  = 1.6
          L1lres = 1.4
252._at: etot  = 1.6

```



```
L1lres = 1.5
253._at: etot = 1.6
        L1lres = 1.6
254._at: etot = 1.6
        L1lres = 1.7
255._at: etot = 1.6
        L1lres = 1.8
256._at: etot = 1.6
        L1lres = 1.9
257._at: etot = 1.6
        L1lres = 2
258._at: etot = 1.6
        L1lres = 2.1
259._at: etot = 1.6
        L1lres = 2.2
260._at: etot = 1.6
        L1lres = 2.3
261._at: etot = 1.6
        L1lres = 2.4
262._at: etot = 1.6
        L1lres = 2.5
263._at: etot = 1.6
        L1lres = 2.6
264._at: etot = 1.6
        L1lres = 2.7
265._at: etot = 1.6
        L1lres = 2.8
266._at: etot = 1.6
        L1lres = 2.9
267._at: etot = 1.6
        L1lres = 3
268._at: etot = 1.6
        L1lres = 3.1
269._at: etot = 1.6
        L1lres = 3.2
270._at: etot = 1.6
        L1lres = 3.3
271._at: etot = 1.6
        L1lres = 3.4
272._at: etot = 1.6
        L1lres = 3.5
273._at: etot = 1.6
        L1lres = 3.6
274._at: etot = 1.6
        L1lres = 3.7
275._at: etot = 1.6
        L1lres = 3.8
276._at: etot = 1.6
        L1lres = 3.9
277._at: etot = 1.6
        L1lres = 4
278._at: etot = 1.6
        L1lres = 4.1
279._at: etot = 1.6
        L1lres = 4.2
280._at: etot = 1.6
        L1lres = 4.3
281._at: etot = 1.6
        L1lres = 4.4
282._at: etot = 1.6
        L1lres = 4.5
283._at: etot = 1.6
        L1lres = 4.6
284._at: etot = 1.6
        L1lres = 4.7
285._at: etot = 1.6
        L1lres = 4.8
286._at: etot = 1.6
        L1lres = 4.9
287._at: etot = 1.6
        L1lres = 5
288._at: etot = 1.7
        L1lres = 1
```

```

289._at: etot  = 1.7
        L1lres = 1.1
290._at: etot  = 1.7
        L1lres = 1.2
291._at: etot  = 1.7
        L1lres = 1.3
292._at: etot  = 1.7
        L1lres = 1.4
293._at: etot  = 1.7
        L1lres = 1.5
294._at: etot  = 1.7
        L1lres = 1.6
295._at: etot  = 1.7
        L1lres = 1.7
296._at: etot  = 1.7
        L1lres = 1.8
297._at: etot  = 1.7
        L1lres = 1.9
298._at: etot  = 1.7
        L1lres = 2
299._at: etot  = 1.7
        L1lres = 2.1
300._at: etot  = 1.7
        L1lres = 2.2
301._at: etot  = 1.7
        L1lres = 2.3
302._at: etot  = 1.7
        L1lres = 2.4
303._at: etot  = 1.7
        L1lres = 2.5
304._at: etot  = 1.7
        L1lres = 2.6
305._at: etot  = 1.7
        L1lres = 2.7
306._at: etot  = 1.7
        L1lres = 2.8
307._at: etot  = 1.7
        L1lres = 2.9
308._at: etot  = 1.7
        L1lres = 3
309._at: etot  = 1.7
        L1lres = 3.1
310._at: etot  = 1.7
        L1lres = 3.2
311._at: etot  = 1.7
        L1lres = 3.3
312._at: etot  = 1.7
        L1lres = 3.4
313._at: etot  = 1.7
        L1lres = 3.5
314._at: etot  = 1.7
        L1lres = 3.6
315._at: etot  = 1.7
        L1lres = 3.7
316._at: etot  = 1.7
        L1lres = 3.8
317._at: etot  = 1.7
        L1lres = 3.9
318._at: etot  = 1.7
        L1lres = 4
319._at: etot  = 1.7
        L1lres = 4.1
320._at: etot  = 1.7
        L1lres = 4.2
321._at: etot  = 1.7
        L1lres = 4.3
322._at: etot  = 1.7
        L1lres = 4.4
323._at: etot  = 1.7
        L1lres = 4.5
324._at: etot  = 1.7
        L1lres = 4.6
325._at: etot  = 1.7

```

```

        L1lres = 4.7
326._at: etot  = 1.7
        L1lres = 4.8
327._at: etot  = 1.7
        L1lres = 4.9
328._at: etot  = 1.7
        L1lres = 5
329._at: etot  = 1.8
        L1lres = 1
330._at: etot  = 1.8
        L1lres = 1.1
331._at: etot  = 1.8
        L1lres = 1.2
332._at: etot  = 1.8
        L1lres = 1.3
333._at: etot  = 1.8
        L1lres = 1.4
334._at: etot  = 1.8
        L1lres = 1.5
335._at: etot  = 1.8
        L1lres = 1.6
336._at: etot  = 1.8
        L1lres = 1.7
337._at: etot  = 1.8
        L1lres = 1.8
338._at: etot  = 1.8
        L1lres = 1.9
339._at: etot  = 1.8
        L1lres = 2
340._at: etot  = 1.8
        L1lres = 2.1
341._at: etot  = 1.8
        L1lres = 2.2
342._at: etot  = 1.8
        L1lres = 2.3
343._at: etot  = 1.8
        L1lres = 2.4
344._at: etot  = 1.8
        L1lres = 2.5
345._at: etot  = 1.8
        L1lres = 2.6
346._at: etot  = 1.8
        L1lres = 2.7
347._at: etot  = 1.8
        L1lres = 2.8
348._at: etot  = 1.8
        L1lres = 2.9
349._at: etot  = 1.8
        L1lres = 3
350._at: etot  = 1.8
        L1lres = 3.1
351._at: etot  = 1.8
        L1lres = 3.2
352._at: etot  = 1.8
        L1lres = 3.3
353._at: etot  = 1.8
        L1lres = 3.4
354._at: etot  = 1.8
        L1lres = 3.5
355._at: etot  = 1.8
        L1lres = 3.6
356._at: etot  = 1.8
        L1lres = 3.7
357._at: etot  = 1.8
        L1lres = 3.8
358._at: etot  = 1.8
        L1lres = 3.9
359._at: etot  = 1.8
        L1lres = 4
360._at: etot  = 1.8
        L1lres = 4.1
361._at: etot  = 1.8
        L1lres = 4.2

```

```

362._at: etot  = 1.8
          L1lres = 4.3
363._at: etot  = 1.8
          L1lres = 4.4
364._at: etot  = 1.8
          L1lres = 4.5
365._at: etot  = 1.8
          L1lres = 4.6
366._at: etot  = 1.8
          L1lres = 4.7
367._at: etot  = 1.8
          L1lres = 4.8
368._at: etot  = 1.8
          L1lres = 4.9
369._at: etot  = 1.8
          L1lres = 5
370._at: etot  = 1.9
          L1lres = 1
371._at: etot  = 1.9
          L1lres = 1.1
372._at: etot  = 1.9
          L1lres = 1.2
373._at: etot  = 1.9
          L1lres = 1.3
374._at: etot  = 1.9
          L1lres = 1.4
375._at: etot  = 1.9
          L1lres = 1.5
376._at: etot  = 1.9
          L1lres = 1.6
377._at: etot  = 1.9
          L1lres = 1.7
378._at: etot  = 1.9
          L1lres = 1.8
379._at: etot  = 1.9
          L1lres = 1.9
380._at: etot  = 1.9
          L1lres = 2
381._at: etot  = 1.9
          L1lres = 2.1
382._at: etot  = 1.9
          L1lres = 2.2
383._at: etot  = 1.9
          L1lres = 2.3
384._at: etot  = 1.9
          L1lres = 2.4
385._at: etot  = 1.9
          L1lres = 2.5
386._at: etot  = 1.9
          L1lres = 2.6
387._at: etot  = 1.9
          L1lres = 2.7
388._at: etot  = 1.9
          L1lres = 2.8
389._at: etot  = 1.9
          L1lres = 2.9
390._at: etot  = 1.9
          L1lres = 3
391._at: etot  = 1.9
          L1lres = 3.1
392._at: etot  = 1.9
          L1lres = 3.2
393._at: etot  = 1.9
          L1lres = 3.3
394._at: etot  = 1.9
          L1lres = 3.4
395._at: etot  = 1.9
          L1lres = 3.5
396._at: etot  = 1.9
          L1lres = 3.6
397._at: etot  = 1.9
          L1lres = 3.7
398._at: etot  = 1.9

```

```
L1lres = 3.8
399._at: etot = 1.9
        L1lres = 3.9
400._at: etot = 1.9
        L1lres = 4
401._at: etot = 1.9
        L1lres = 4.1
402._at: etot = 1.9
        L1lres = 4.2
403._at: etot = 1.9
        L1lres = 4.3
404._at: etot = 1.9
        L1lres = 4.4
405._at: etot = 1.9
        L1lres = 4.5
406._at: etot = 1.9
        L1lres = 4.6
407._at: etot = 1.9
        L1lres = 4.7
408._at: etot = 1.9
        L1lres = 4.8
409._at: etot = 1.9
        L1lres = 4.9
410._at: etot = 1.9
        L1lres = 5
411._at: etot = 2
        L1lres = 1
412._at: etot = 2
        L1lres = 1.1
413._at: etot = 2
        L1lres = 1.2
414._at: etot = 2
        L1lres = 1.3
415._at: etot = 2
        L1lres = 1.4
416._at: etot = 2
        L1lres = 1.5
417._at: etot = 2
        L1lres = 1.6
418._at: etot = 2
        L1lres = 1.7
419._at: etot = 2
        L1lres = 1.8
420._at: etot = 2
        L1lres = 1.9
421._at: etot = 2
        L1lres = 2
422._at: etot = 2
        L1lres = 2.1
423._at: etot = 2
        L1lres = 2.2
424._at: etot = 2
        L1lres = 2.3
425._at: etot = 2
        L1lres = 2.4
426._at: etot = 2
        L1lres = 2.5
427._at: etot = 2
        L1lres = 2.6
428._at: etot = 2
        L1lres = 2.7
429._at: etot = 2
        L1lres = 2.8
430._at: etot = 2
        L1lres = 2.9
431._at: etot = 2
        L1lres = 3
432._at: etot = 2
        L1lres = 3.1
433._at: etot = 2
        L1lres = 3.2
434._at: etot = 2
        L1lres = 3.3
```

```

435._at: etot = 2
         L1lres = 3.4
436._at: etot = 2
         L1lres = 3.5
437._at: etot = 2
         L1lres = 3.6
438._at: etot = 2
         L1lres = 3.7
439._at: etot = 2
         L1lres = 3.8
440._at: etot = 2
         L1lres = 3.9
441._at: etot = 2
         L1lres = 4
442._at: etot = 2
         L1lres = 4.1
443._at: etot = 2
         L1lres = 4.2
444._at: etot = 2
         L1lres = 4.3
445._at: etot = 2
         L1lres = 4.4
446._at: etot = 2
         L1lres = 4.5
447._at: etot = 2
         L1lres = 4.6
448._at: etot = 2
         L1lres = 4.7
449._at: etot = 2
         L1lres = 4.8
450._at: etot = 2
         L1lres = 4.9
451._at: etot = 2
         L1lres = 5
452._at: etot = 2.1
         L1lres = 1
453._at: etot = 2.1
         L1lres = 1.1
454._at: etot = 2.1
         L1lres = 1.2
455._at: etot = 2.1
         L1lres = 1.3
456._at: etot = 2.1
         L1lres = 1.4
457._at: etot = 2.1
         L1lres = 1.5
458._at: etot = 2.1
         L1lres = 1.6
459._at: etot = 2.1
         L1lres = 1.7
460._at: etot = 2.1
         L1lres = 1.8
461._at: etot = 2.1
         L1lres = 1.9
462._at: etot = 2.1
         L1lres = 2
463._at: etot = 2.1
         L1lres = 2.1
464._at: etot = 2.1
         L1lres = 2.2
465._at: etot = 2.1
         L1lres = 2.3
466._at: etot = 2.1
         L1lres = 2.4
467._at: etot = 2.1
         L1lres = 2.5
468._at: etot = 2.1
         L1lres = 2.6
469._at: etot = 2.1
         L1lres = 2.7
470._at: etot = 2.1
         L1lres = 2.8
471._at: etot = 2.1

```

```
L1lres = 2.9
472._at: etot = 2.1
        L1lres = 3
473._at: etot = 2.1
        L1lres = 3.1
474._at: etot = 2.1
        L1lres = 3.2
475._at: etot = 2.1
        L1lres = 3.3
476._at: etot = 2.1
        L1lres = 3.4
477._at: etot = 2.1
        L1lres = 3.5
478._at: etot = 2.1
        L1lres = 3.6
479._at: etot = 2.1
        L1lres = 3.7
480._at: etot = 2.1
        L1lres = 3.8
481._at: etot = 2.1
        L1lres = 3.9
482._at: etot = 2.1
        L1lres = 4
483._at: etot = 2.1
        L1lres = 4.1
484._at: etot = 2.1
        L1lres = 4.2
485._at: etot = 2.1
        L1lres = 4.3
486._at: etot = 2.1
        L1lres = 4.4
487._at: etot = 2.1
        L1lres = 4.5
488._at: etot = 2.1
        L1lres = 4.6
489._at: etot = 2.1
        L1lres = 4.7
490._at: etot = 2.1
        L1lres = 4.8
491._at: etot = 2.1
        L1lres = 4.9
492._at: etot = 2.1
        L1lres = 5
493._at: etot = 2.2
        L1lres = 1
494._at: etot = 2.2
        L1lres = 1.1
495._at: etot = 2.2
        L1lres = 1.2
496._at: etot = 2.2
        L1lres = 1.3
497._at: etot = 2.2
        L1lres = 1.4
498._at: etot = 2.2
        L1lres = 1.5
499._at: etot = 2.2
        L1lres = 1.6
500._at: etot = 2.2
        L1lres = 1.7
501._at: etot = 2.2
        L1lres = 1.8
502._at: etot = 2.2
        L1lres = 1.9
503._at: etot = 2.2
        L1lres = 2
504._at: etot = 2.2
        L1lres = 2.1
505._at: etot = 2.2
        L1lres = 2.2
506._at: etot = 2.2
        L1lres = 2.3
507._at: etot = 2.2
        L1lres = 2.4
```

```

508._at: etot  = 2.2
          L1lres = 2.5
509._at: etot  = 2.2
          L1lres = 2.6
510._at: etot  = 2.2
          L1lres = 2.7
511._at: etot  = 2.2
          L1lres = 2.8
512._at: etot  = 2.2
          L1lres = 2.9
513._at: etot  = 2.2
          L1lres = 3
514._at: etot  = 2.2
          L1lres = 3.1
515._at: etot  = 2.2
          L1lres = 3.2
516._at: etot  = 2.2
          L1lres = 3.3
517._at: etot  = 2.2
          L1lres = 3.4
518._at: etot  = 2.2
          L1lres = 3.5
519._at: etot  = 2.2
          L1lres = 3.6
520._at: etot  = 2.2
          L1lres = 3.7
521._at: etot  = 2.2
          L1lres = 3.8
522._at: etot  = 2.2
          L1lres = 3.9
523._at: etot  = 2.2
          L1lres = 4
524._at: etot  = 2.2
          L1lres = 4.1
525._at: etot  = 2.2
          L1lres = 4.2
526._at: etot  = 2.2
          L1lres = 4.3
527._at: etot  = 2.2
          L1lres = 4.4
528._at: etot  = 2.2
          L1lres = 4.5
529._at: etot  = 2.2
          L1lres = 4.6
530._at: etot  = 2.2
          L1lres = 4.7
531._at: etot  = 2.2
          L1lres = 4.8
532._at: etot  = 2.2
          L1lres = 4.9
533._at: etot  = 2.2
          L1lres = 5
534._at: etot  = 2.3
          L1lres = 1
535._at: etot  = 2.3
          L1lres = 1.1
536._at: etot  = 2.3
          L1lres = 1.2
537._at: etot  = 2.3
          L1lres = 1.3
538._at: etot  = 2.3
          L1lres = 1.4
539._at: etot  = 2.3
          L1lres = 1.5
540._at: etot  = 2.3
          L1lres = 1.6
541._at: etot  = 2.3
          L1lres = 1.7
542._at: etot  = 2.3
          L1lres = 1.8
543._at: etot  = 2.3
          L1lres = 1.9
544._at: etot  = 2.3

```



```

        L1lres = 2
545._at: etot = 2.3
        L1lres = 2.1
546._at: etot = 2.3
        L1lres = 2.2
547._at: etot = 2.3
        L1lres = 2.3
548._at: etot = 2.3
        L1lres = 2.4
549._at: etot = 2.3
        L1lres = 2.5
550._at: etot = 2.3
        L1lres = 2.6
551._at: etot = 2.3
        L1lres = 2.7
552._at: etot = 2.3
        L1lres = 2.8
553._at: etot = 2.3
        L1lres = 2.9
554._at: etot = 2.3
        L1lres = 3
555._at: etot = 2.3
        L1lres = 3.1
556._at: etot = 2.3
        L1lres = 3.2
557._at: etot = 2.3
        L1lres = 3.3
558._at: etot = 2.3
        L1lres = 3.4
559._at: etot = 2.3
        L1lres = 3.5
560._at: etot = 2.3
        L1lres = 3.6
561._at: etot = 2.3
        L1lres = 3.7
562._at: etot = 2.3
        L1lres = 3.8
563._at: etot = 2.3
        L1lres = 3.9
564._at: etot = 2.3
        L1lres = 4
565._at: etot = 2.3
        L1lres = 4.1
566._at: etot = 2.3
        L1lres = 4.2
567._at: etot = 2.3
        L1lres = 4.3
568._at: etot = 2.3
        L1lres = 4.4
569._at: etot = 2.3
        L1lres = 4.5
570._at: etot = 2.3
        L1lres = 4.6
571._at: etot = 2.3
        L1lres = 4.7
572._at: etot = 2.3
        L1lres = 4.8
573._at: etot = 2.3
        L1lres = 4.9
574._at: etot = 2.3
        L1lres = 5
575._at: etot = 2.4
        L1lres = 1
576._at: etot = 2.4
        L1lres = 1.1
577._at: etot = 2.4
        L1lres = 1.2
578._at: etot = 2.4
        L1lres = 1.3
579._at: etot = 2.4
        L1lres = 1.4
580._at: etot = 2.4
        L1lres = 1.5

```

```

581._at: etot  = 2.4
          L1lres = 1.6
582._at: etot  = 2.4
          L1lres = 1.7
583._at: etot  = 2.4
          L1lres = 1.8
584._at: etot  = 2.4
          L1lres = 1.9
585._at: etot  = 2.4
          L1lres = 2
586._at: etot  = 2.4
          L1lres = 2.1
587._at: etot  = 2.4
          L1lres = 2.2
588._at: etot  = 2.4
          L1lres = 2.3
589._at: etot  = 2.4
          L1lres = 2.4
590._at: etot  = 2.4
          L1lres = 2.5
591._at: etot  = 2.4
          L1lres = 2.6
592._at: etot  = 2.4
          L1lres = 2.7
593._at: etot  = 2.4
          L1lres = 2.8
594._at: etot  = 2.4
          L1lres = 2.9
595._at: etot  = 2.4
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596._at: etot  = 2.4
          L1lres = 3.1
597._at: etot  = 2.4
          L1lres = 3.2
598._at: etot  = 2.4
          L1lres = 3.3
599._at: etot  = 2.4
          L1lres = 3.4
600._at: etot  = 2.4
          L1lres = 3.5
601._at: etot  = 2.4
          L1lres = 3.6
602._at: etot  = 2.4
          L1lres = 3.7
603._at: etot  = 2.4
          L1lres = 3.8
604._at: etot  = 2.4
          L1lres = 3.9
605._at: etot  = 2.4
          L1lres = 4
606._at: etot  = 2.4
          L1lres = 4.1
607._at: etot  = 2.4
          L1lres = 4.2
608._at: etot  = 2.4
          L1lres = 4.3
609._at: etot  = 2.4
          L1lres = 4.4
610._at: etot  = 2.4
          L1lres = 4.5
611._at: etot  = 2.4
          L1lres = 4.6
612._at: etot  = 2.4
          L1lres = 4.7
613._at: etot  = 2.4
          L1lres = 4.8
614._at: etot  = 2.4
          L1lres = 4.9
615._at: etot  = 2.4
          L1lres = 5
616._at: etot  = 2.5
          L1lres = 1
617._at: etot  = 2.5

```

```

        L1lres = 1.1
618._at: etot  = 2.5
        L1lres = 1.2
619._at: etot  = 2.5
        L1lres = 1.3
620._at: etot  = 2.5
        L1lres = 1.4
621._at: etot  = 2.5
        L1lres = 1.5
622._at: etot  = 2.5
        L1lres = 1.6
623._at: etot  = 2.5
        L1lres = 1.7
624._at: etot  = 2.5
        L1lres = 1.8
625._at: etot  = 2.5
        L1lres = 1.9
626._at: etot  = 2.5
        L1lres = 2
627._at: etot  = 2.5
        L1lres = 2.1
628._at: etot  = 2.5
        L1lres = 2.2
629._at: etot  = 2.5
        L1lres = 2.3
630._at: etot  = 2.5
        L1lres = 2.4
631._at: etot  = 2.5
        L1lres = 2.5
632._at: etot  = 2.5
        L1lres = 2.6
633._at: etot  = 2.5
        L1lres = 2.7
634._at: etot  = 2.5
        L1lres = 2.8
635._at: etot  = 2.5
        L1lres = 2.9
636._at: etot  = 2.5
        L1lres = 3
637._at: etot  = 2.5
        L1lres = 3.1
638._at: etot  = 2.5
        L1lres = 3.2
639._at: etot  = 2.5
        L1lres = 3.3
640._at: etot  = 2.5
        L1lres = 3.4
641._at: etot  = 2.5
        L1lres = 3.5
642._at: etot  = 2.5
        L1lres = 3.6
643._at: etot  = 2.5
        L1lres = 3.7
644._at: etot  = 2.5
        L1lres = 3.8
645._at: etot  = 2.5
        L1lres = 3.9
646._at: etot  = 2.5
        L1lres = 4
647._at: etot  = 2.5
        L1lres = 4.1
648._at: etot  = 2.5
        L1lres = 4.2
649._at: etot  = 2.5
        L1lres = 4.3
650._at: etot  = 2.5
        L1lres = 4.4
651._at: etot  = 2.5
        L1lres = 4.5
652._at: etot  = 2.5
        L1lres = 4.6
653._at: etot  = 2.5
        L1lres = 4.7

```

```

654._at: etot  = 2.5
        L1lres = 4.8
655._at: etot  = 2.5
        L1lres = 4.9
656._at: etot  = 2.5
        L1lres = 5
657._at: etot  = 2.6
        L1lres = 1
658._at: etot  = 2.6
        L1lres = 1.1
659._at: etot  = 2.6
        L1lres = 1.2
660._at: etot  = 2.6
        L1lres = 1.3
661._at: etot  = 2.6
        L1lres = 1.4
662._at: etot  = 2.6
        L1lres = 1.5
663._at: etot  = 2.6
        L1lres = 1.6
664._at: etot  = 2.6
        L1lres = 1.7
665._at: etot  = 2.6
        L1lres = 1.8
666._at: etot  = 2.6
        L1lres = 1.9
667._at: etot  = 2.6
        L1lres = 2
668._at: etot  = 2.6
        L1lres = 2.1
669._at: etot  = 2.6
        L1lres = 2.2
670._at: etot  = 2.6
        L1lres = 2.3
671._at: etot  = 2.6
        L1lres = 2.4
672._at: etot  = 2.6
        L1lres = 2.5
673._at: etot  = 2.6
        L1lres = 2.6
674._at: etot  = 2.6
        L1lres = 2.7
675._at: etot  = 2.6
        L1lres = 2.8
676._at: etot  = 2.6
        L1lres = 2.9
677._at: etot  = 2.6
        L1lres = 3
678._at: etot  = 2.6
        L1lres = 3.1
679._at: etot  = 2.6
        L1lres = 3.2
680._at: etot  = 2.6
        L1lres = 3.3
681._at: etot  = 2.6
        L1lres = 3.4
682._at: etot  = 2.6
        L1lres = 3.5
683._at: etot  = 2.6
        L1lres = 3.6
684._at: etot  = 2.6
        L1lres = 3.7
685._at: etot  = 2.6
        L1lres = 3.8
686._at: etot  = 2.6
        L1lres = 3.9
687._at: etot  = 2.6
        L1lres = 4
688._at: etot  = 2.6
        L1lres = 4.1
689._at: etot  = 2.6
        L1lres = 4.2
690._at: etot  = 2.6

```

```

        L1lres = 4.3
691._at: etot  = 2.6
        L1lres = 4.4
692._at: etot  = 2.6
        L1lres = 4.5
693._at: etot  = 2.6
        L1lres = 4.6
694._at: etot  = 2.6
        L1lres = 4.7
695._at: etot  = 2.6
        L1lres = 4.8
696._at: etot  = 2.6
        L1lres = 4.9
697._at: etot  = 2.6
        L1lres = 5
698._at: etot  = 2.7
        L1lres = 1
699._at: etot  = 2.7
        L1lres = 1.1
700._at: etot  = 2.7
        L1lres = 1.2
701._at: etot  = 2.7
        L1lres = 1.3
702._at: etot  = 2.7
        L1lres = 1.4
703._at: etot  = 2.7
        L1lres = 1.5
704._at: etot  = 2.7
        L1lres = 1.6
705._at: etot  = 2.7
        L1lres = 1.7
706._at: etot  = 2.7
        L1lres = 1.8
707._at: etot  = 2.7
        L1lres = 1.9
708._at: etot  = 2.7
        L1lres = 2
709._at: etot  = 2.7
        L1lres = 2.1
710._at: etot  = 2.7
        L1lres = 2.2
711._at: etot  = 2.7
        L1lres = 2.3
712._at: etot  = 2.7
        L1lres = 2.4
713._at: etot  = 2.7
        L1lres = 2.5
714._at: etot  = 2.7
        L1lres = 2.6
715._at: etot  = 2.7
        L1lres = 2.7
716._at: etot  = 2.7
        L1lres = 2.8
717._at: etot  = 2.7
        L1lres = 2.9
718._at: etot  = 2.7
        L1lres = 3
719._at: etot  = 2.7
        L1lres = 3.1
720._at: etot  = 2.7
        L1lres = 3.2
721._at: etot  = 2.7
        L1lres = 3.3
722._at: etot  = 2.7
        L1lres = 3.4
723._at: etot  = 2.7
        L1lres = 3.5
724._at: etot  = 2.7
        L1lres = 3.6
725._at: etot  = 2.7
        L1lres = 3.7
726._at: etot  = 2.7
        L1lres = 3.8

```

```

727._at: etot  = 2.7
        L1lres = 3.9
728._at: etot  = 2.7
        L1lres = 4
729._at: etot  = 2.7
        L1lres = 4.1
730._at: etot  = 2.7
        L1lres = 4.2
731._at: etot  = 2.7
        L1lres = 4.3
732._at: etot  = 2.7
        L1lres = 4.4
733._at: etot  = 2.7
        L1lres = 4.5
734._at: etot  = 2.7
        L1lres = 4.6
735._at: etot  = 2.7
        L1lres = 4.7
736._at: etot  = 2.7
        L1lres = 4.8
737._at: etot  = 2.7
        L1lres = 4.9
738._at: etot  = 2.7
        L1lres = 5
739._at: etot  = 2.8
        L1lres = 1
740._at: etot  = 2.8
        L1lres = 1.1
741._at: etot  = 2.8
        L1lres = 1.2
742._at: etot  = 2.8
        L1lres = 1.3
743._at: etot  = 2.8
        L1lres = 1.4
744._at: etot  = 2.8
        L1lres = 1.5
745._at: etot  = 2.8
        L1lres = 1.6
746._at: etot  = 2.8
        L1lres = 1.7
747._at: etot  = 2.8
        L1lres = 1.8
748._at: etot  = 2.8
        L1lres = 1.9
749._at: etot  = 2.8
        L1lres = 2
750._at: etot  = 2.8
        L1lres = 2.1
751._at: etot  = 2.8
        L1lres = 2.2
752._at: etot  = 2.8
        L1lres = 2.3
753._at: etot  = 2.8
        L1lres = 2.4
754._at: etot  = 2.8
        L1lres = 2.5
755._at: etot  = 2.8
        L1lres = 2.6
756._at: etot  = 2.8
        L1lres = 2.7
757._at: etot  = 2.8
        L1lres = 2.8
758._at: etot  = 2.8
        L1lres = 2.9
759._at: etot  = 2.8
        L1lres = 3
760._at: etot  = 2.8
        L1lres = 3.1
761._at: etot  = 2.8
        L1lres = 3.2
762._at: etot  = 2.8
        L1lres = 3.3
763._at: etot  = 2.8

```

```

        L1lres = 3.4
764._at: etot  = 2.8
        L1lres = 3.5
765._at: etot  = 2.8
        L1lres = 3.6
766._at: etot  = 2.8
        L1lres = 3.7
767._at: etot  = 2.8
        L1lres = 3.8
768._at: etot  = 2.8
        L1lres = 3.9
769._at: etot  = 2.8
        L1lres = 4
770._at: etot  = 2.8
        L1lres = 4.1
771._at: etot  = 2.8
        L1lres = 4.2
772._at: etot  = 2.8
        L1lres = 4.3
773._at: etot  = 2.8
        L1lres = 4.4
774._at: etot  = 2.8
        L1lres = 4.5
775._at: etot  = 2.8
        L1lres = 4.6
776._at: etot  = 2.8
        L1lres = 4.7
777._at: etot  = 2.8
        L1lres = 4.8
778._at: etot  = 2.8
        L1lres = 4.9
779._at: etot  = 2.8
        L1lres = 5
780._at: etot  = 2.9
        L1lres = 1
781._at: etot  = 2.9
        L1lres = 1.1
782._at: etot  = 2.9
        L1lres = 1.2
783._at: etot  = 2.9
        L1lres = 1.3
784._at: etot  = 2.9
        L1lres = 1.4
785._at: etot  = 2.9
        L1lres = 1.5
786._at: etot  = 2.9
        L1lres = 1.6
787._at: etot  = 2.9
        L1lres = 1.7
788._at: etot  = 2.9
        L1lres = 1.8
789._at: etot  = 2.9
        L1lres = 1.9
790._at: etot  = 2.9
        L1lres = 2
791._at: etot  = 2.9
        L1lres = 2.1
792._at: etot  = 2.9
        L1lres = 2.2
793._at: etot  = 2.9
        L1lres = 2.3
794._at: etot  = 2.9
        L1lres = 2.4
795._at: etot  = 2.9
        L1lres = 2.5
796._at: etot  = 2.9
        L1lres = 2.6
797._at: etot  = 2.9
        L1lres = 2.7
798._at: etot  = 2.9
        L1lres = 2.8
799._at: etot  = 2.9
        L1lres = 2.9

```

```

800._at: etot = 2.9
          L1lres = 3
801._at: etot = 2.9
          L1lres = 3.1
802._at: etot = 2.9
          L1lres = 3.2
803._at: etot = 2.9
          L1lres = 3.3
804._at: etot = 2.9
          L1lres = 3.4
805._at: etot = 2.9
          L1lres = 3.5
806._at: etot = 2.9
          L1lres = 3.6
807._at: etot = 2.9
          L1lres = 3.7
808._at: etot = 2.9
          L1lres = 3.8
809._at: etot = 2.9
          L1lres = 3.9
810._at: etot = 2.9
          L1lres = 4
811._at: etot = 2.9
          L1lres = 4.1
812._at: etot = 2.9
          L1lres = 4.2
813._at: etot = 2.9
          L1lres = 4.3
814._at: etot = 2.9
          L1lres = 4.4
815._at: etot = 2.9
          L1lres = 4.5
816._at: etot = 2.9
          L1lres = 4.6
817._at: etot = 2.9
          L1lres = 4.7
818._at: etot = 2.9
          L1lres = 4.8
819._at: etot = 2.9
          L1lres = 4.9
820._at: etot = 2.9
          L1lres = 5
821._at: etot = 3
          L1lres = 1
822._at: etot = 3
          L1lres = 1.1
823._at: etot = 3
          L1lres = 1.2
824._at: etot = 3
          L1lres = 1.3
825._at: etot = 3
          L1lres = 1.4
826._at: etot = 3
          L1lres = 1.5
827._at: etot = 3
          L1lres = 1.6
828._at: etot = 3
          L1lres = 1.7
829._at: etot = 3
          L1lres = 1.8
830._at: etot = 3
          L1lres = 1.9
831._at: etot = 3
          L1lres = 2
832._at: etot = 3
          L1lres = 2.1
833._at: etot = 3
          L1lres = 2.2
834._at: etot = 3
          L1lres = 2.3
835._at: etot = 3
          L1lres = 2.4
836._at: etot = 3

```



```

      L1lres = 2.5
837._at: etot = 3
      L1lres = 2.6
838._at: etot = 3
      L1lres = 2.7
839._at: etot = 3
      L1lres = 2.8
840._at: etot = 3
      L1lres = 2.9
841._at: etot = 3
      L1lres = 3
842._at: etot = 3
      L1lres = 3.1
843._at: etot = 3
      L1lres = 3.2
844._at: etot = 3
      L1lres = 3.3
845._at: etot = 3
      L1lres = 3.4
846._at: etot = 3
      L1lres = 3.5
847._at: etot = 3
      L1lres = 3.6
848._at: etot = 3
      L1lres = 3.7
849._at: etot = 3
      L1lres = 3.8
850._at: etot = 3
      L1lres = 3.9
851._at: etot = 3
      L1lres = 4
852._at: etot = 3
      L1lres = 4.1
853._at: etot = 3
      L1lres = 4.2
854._at: etot = 3
      L1lres = 4.3
855._at: etot = 3
      L1lres = 4.4
856._at: etot = 3
      L1lres = 4.5
857._at: etot = 3
      L1lres = 4.6
858._at: etot = 3
      L1lres = 4.7
859._at: etot = 3
      L1lres = 4.8
860._at: etot = 3
      L1lres = 4.9
861._at: etot = 3
      L1lres = 5
862._at: etot = 3.1
      L1lres = 1
863._at: etot = 3.1
      L1lres = 1.1
864._at: etot = 3.1
      L1lres = 1.2
865._at: etot = 3.1
      L1lres = 1.3
866._at: etot = 3.1
      L1lres = 1.4
867._at: etot = 3.1
      L1lres = 1.5
868._at: etot = 3.1
      L1lres = 1.6
869._at: etot = 3.1
      L1lres = 1.7
870._at: etot = 3.1
      L1lres = 1.8
871._at: etot = 3.1
      L1lres = 1.9
872._at: etot = 3.1
      L1lres = 2

```

```

873._at: etot  = 3.1
          L1lres = 2.1
874._at: etot  = 3.1
          L1lres = 2.2
875._at: etot  = 3.1
          L1lres = 2.3
876._at: etot  = 3.1
          L1lres = 2.4
877._at: etot  = 3.1
          L1lres = 2.5
878._at: etot  = 3.1
          L1lres = 2.6
879._at: etot  = 3.1
          L1lres = 2.7
880._at: etot  = 3.1
          L1lres = 2.8
881._at: etot  = 3.1
          L1lres = 2.9
882._at: etot  = 3.1
          L1lres = 3
883._at: etot  = 3.1
          L1lres = 3.1
884._at: etot  = 3.1
          L1lres = 3.2
885._at: etot  = 3.1
          L1lres = 3.3
886._at: etot  = 3.1
          L1lres = 3.4
887._at: etot  = 3.1
          L1lres = 3.5
888._at: etot  = 3.1
          L1lres = 3.6
889._at: etot  = 3.1
          L1lres = 3.7
890._at: etot  = 3.1
          L1lres = 3.8
891._at: etot  = 3.1
          L1lres = 3.9
892._at: etot  = 3.1
          L1lres = 4
893._at: etot  = 3.1
          L1lres = 4.1
894._at: etot  = 3.1
          L1lres = 4.2
895._at: etot  = 3.1
          L1lres = 4.3
896._at: etot  = 3.1
          L1lres = 4.4
897._at: etot  = 3.1
          L1lres = 4.5
898._at: etot  = 3.1
          L1lres = 4.6
899._at: etot  = 3.1
          L1lres = 4.7
900._at: etot  = 3.1
          L1lres = 4.8
901._at: etot  = 3.1
          L1lres = 4.9
902._at: etot  = 3.1
          L1lres = 5
903._at: etot  = 3.2
          L1lres = 1
904._at: etot  = 3.2
          L1lres = 1.1
905._at: etot  = 3.2
          L1lres = 1.2
906._at: etot  = 3.2
          L1lres = 1.3
907._at: etot  = 3.2
          L1lres = 1.4
908._at: etot  = 3.2
          L1lres = 1.5
909._at: etot  = 3.2

```

```

        L1lres = 1.6
910._at: etot  = 3.2
        L1lres = 1.7
911._at: etot  = 3.2
        L1lres = 1.8
912._at: etot  = 3.2
        L1lres = 1.9
913._at: etot  = 3.2
        L1lres = 2
914._at: etot  = 3.2
        L1lres = 2.1
915._at: etot  = 3.2
        L1lres = 2.2
916._at: etot  = 3.2
        L1lres = 2.3
917._at: etot  = 3.2
        L1lres = 2.4
918._at: etot  = 3.2
        L1lres = 2.5
919._at: etot  = 3.2
        L1lres = 2.6
920._at: etot  = 3.2
        L1lres = 2.7
921._at: etot  = 3.2
        L1lres = 2.8
922._at: etot  = 3.2
        L1lres = 2.9
923._at: etot  = 3.2
        L1lres = 3
924._at: etot  = 3.2
        L1lres = 3.1
925._at: etot  = 3.2
        L1lres = 3.2
926._at: etot  = 3.2
        L1lres = 3.3
927._at: etot  = 3.2
        L1lres = 3.4
928._at: etot  = 3.2
        L1lres = 3.5
929._at: etot  = 3.2
        L1lres = 3.6
930._at: etot  = 3.2
        L1lres = 3.7
931._at: etot  = 3.2
        L1lres = 3.8
932._at: etot  = 3.2
        L1lres = 3.9
933._at: etot  = 3.2
        L1lres = 4
934._at: etot  = 3.2
        L1lres = 4.1
935._at: etot  = 3.2
        L1lres = 4.2
936._at: etot  = 3.2
        L1lres = 4.3
937._at: etot  = 3.2
        L1lres = 4.4
938._at: etot  = 3.2
        L1lres = 4.5
939._at: etot  = 3.2
        L1lres = 4.6
940._at: etot  = 3.2
        L1lres = 4.7
941._at: etot  = 3.2
        L1lres = 4.8
942._at: etot  = 3.2
        L1lres = 4.9
943._at: etot  = 3.2
        L1lres = 5
944._at: etot  = 3.3
        L1lres = 1
945._at: etot  = 3.3
        L1lres = 1.1

```

```

946._at: etot = 3.3
          L1lres = 1.2
947._at: etot = 3.3
          L1lres = 1.3
948._at: etot = 3.3
          L1lres = 1.4
949._at: etot = 3.3
          L1lres = 1.5
950._at: etot = 3.3
          L1lres = 1.6
951._at: etot = 3.3
          L1lres = 1.7
952._at: etot = 3.3
          L1lres = 1.8
953._at: etot = 3.3
          L1lres = 1.9
954._at: etot = 3.3
          L1lres = 2
955._at: etot = 3.3
          L1lres = 2.1
956._at: etot = 3.3
          L1lres = 2.2
957._at: etot = 3.3
          L1lres = 2.3
958._at: etot = 3.3
          L1lres = 2.4
959._at: etot = 3.3
          L1lres = 2.5
960._at: etot = 3.3
          L1lres = 2.6
961._at: etot = 3.3
          L1lres = 2.7
962._at: etot = 3.3
          L1lres = 2.8
963._at: etot = 3.3
          L1lres = 2.9
964._at: etot = 3.3
          L1lres = 3
965._at: etot = 3.3
          L1lres = 3.1
966._at: etot = 3.3
          L1lres = 3.2
967._at: etot = 3.3
          L1lres = 3.3
968._at: etot = 3.3
          L1lres = 3.4
969._at: etot = 3.3
          L1lres = 3.5
970._at: etot = 3.3
          L1lres = 3.6
971._at: etot = 3.3
          L1lres = 3.7
972._at: etot = 3.3
          L1lres = 3.8
973._at: etot = 3.3
          L1lres = 3.9
974._at: etot = 3.3
          L1lres = 4
975._at: etot = 3.3
          L1lres = 4.1
976._at: etot = 3.3
          L1lres = 4.2
977._at: etot = 3.3
          L1lres = 4.3
978._at: etot = 3.3
          L1lres = 4.4
979._at: etot = 3.3
          L1lres = 4.5
980._at: etot = 3.3
          L1lres = 4.6
981._at: etot = 3.3
          L1lres = 4.7
982._at: etot = 3.3

```

```
L1lres = 4.8
983._at: etot = 3.3
        L1lres = 4.9
984._at: etot = 3.3
        L1lres = 5
985._at: etot = 3.4
        L1lres = 1
986._at: etot = 3.4
        L1lres = 1.1
987._at: etot = 3.4
        L1lres = 1.2
988._at: etot = 3.4
        L1lres = 1.3
989._at: etot = 3.4
        L1lres = 1.4
990._at: etot = 3.4
        L1lres = 1.5
991._at: etot = 3.4
        L1lres = 1.6
992._at: etot = 3.4
        L1lres = 1.7
993._at: etot = 3.4
        L1lres = 1.8
994._at: etot = 3.4
        L1lres = 1.9
995._at: etot = 3.4
        L1lres = 2
996._at: etot = 3.4
        L1lres = 2.1
997._at: etot = 3.4
        L1lres = 2.2
998._at: etot = 3.4
        L1lres = 2.3
999._at: etot = 3.4
        L1lres = 2.4
1000._at: etot = 3.4
        L1lres = 2.5
1001._at: etot = 3.4
        L1lres = 2.6
1002._at: etot = 3.4
        L1lres = 2.7
1003._at: etot = 3.4
        L1lres = 2.8
1004._at: etot = 3.4
        L1lres = 2.9
1005._at: etot = 3.4
        L1lres = 3
1006._at: etot = 3.4
        L1lres = 3.1
1007._at: etot = 3.4
        L1lres = 3.2
1008._at: etot = 3.4
        L1lres = 3.3
1009._at: etot = 3.4
        L1lres = 3.4
1010._at: etot = 3.4
        L1lres = 3.5
1011._at: etot = 3.4
        L1lres = 3.6
1012._at: etot = 3.4
        L1lres = 3.7
1013._at: etot = 3.4
        L1lres = 3.8
1014._at: etot = 3.4
        L1lres = 3.9
1015._at: etot = 3.4
        L1lres = 4
1016._at: etot = 3.4
        L1lres = 4.1
1017._at: etot = 3.4
        L1lres = 4.2
1018._at: etot = 3.4
        L1lres = 4.3
```

```

1019._at: etot  = 3.4
          L1lres = 4.4
1020._at: etot  = 3.4
          L1lres = 4.5
1021._at: etot  = 3.4
          L1lres = 4.6
1022._at: etot  = 3.4
          L1lres = 4.7
1023._at: etot  = 3.4
          L1lres = 4.8
1024._at: etot  = 3.4
          L1lres = 4.9
1025._at: etot  = 3.4
          L1lres = 5
1026._at: etot  = 3.5
          L1lres = 1
1027._at: etot  = 3.5
          L1lres = 1.1
1028._at: etot  = 3.5
          L1lres = 1.2
1029._at: etot  = 3.5
          L1lres = 1.3
1030._at: etot  = 3.5
          L1lres = 1.4
1031._at: etot  = 3.5
          L1lres = 1.5
1032._at: etot  = 3.5
          L1lres = 1.6
1033._at: etot  = 3.5
          L1lres = 1.7
1034._at: etot  = 3.5
          L1lres = 1.8
1035._at: etot  = 3.5
          L1lres = 1.9
1036._at: etot  = 3.5
          L1lres = 2
1037._at: etot  = 3.5
          L1lres = 2.1
1038._at: etot  = 3.5
          L1lres = 2.2
1039._at: etot  = 3.5
          L1lres = 2.3
1040._at: etot  = 3.5
          L1lres = 2.4
1041._at: etot  = 3.5
          L1lres = 2.5
1042._at: etot  = 3.5
          L1lres = 2.6
1043._at: etot  = 3.5
          L1lres = 2.7
1044._at: etot  = 3.5
          L1lres = 2.8
1045._at: etot  = 3.5
          L1lres = 2.9
1046._at: etot  = 3.5
          L1lres = 3
1047._at: etot  = 3.5
          L1lres = 3.1
1048._at: etot  = 3.5
          L1lres = 3.2
1049._at: etot  = 3.5
          L1lres = 3.3
1050._at: etot  = 3.5
          L1lres = 3.4
1051._at: etot  = 3.5
          L1lres = 3.5
1052._at: etot  = 3.5
          L1lres = 3.6
1053._at: etot  = 3.5
          L1lres = 3.7
1054._at: etot  = 3.5
          L1lres = 3.8
1055._at: etot  = 3.5

```

```

        L1lres = 3.9
1056._at: etot  = 3.5
        L1lres = 4
1057._at: etot  = 3.5
        L1lres = 4.1
1058._at: etot  = 3.5
        L1lres = 4.2
1059._at: etot  = 3.5
        L1lres = 4.3
1060._at: etot  = 3.5
        L1lres = 4.4
1061._at: etot  = 3.5
        L1lres = 4.5
1062._at: etot  = 3.5
        L1lres = 4.6
1063._at: etot  = 3.5
        L1lres = 4.7
1064._at: etot  = 3.5
        L1lres = 4.8
1065._at: etot  = 3.5
        L1lres = 4.9
1066._at: etot  = 3.5
        L1lres = 5
1067._at: etot  = 3.6
        L1lres = 1
1068._at: etot  = 3.6
        L1lres = 1.1
1069._at: etot  = 3.6
        L1lres = 1.2
1070._at: etot  = 3.6
        L1lres = 1.3
1071._at: etot  = 3.6
        L1lres = 1.4
1072._at: etot  = 3.6
        L1lres = 1.5
1073._at: etot  = 3.6
        L1lres = 1.6
1074._at: etot  = 3.6
        L1lres = 1.7
1075._at: etot  = 3.6
        L1lres = 1.8
1076._at: etot  = 3.6
        L1lres = 1.9
1077._at: etot  = 3.6
        L1lres = 2
1078._at: etot  = 3.6
        L1lres = 2.1
1079._at: etot  = 3.6
        L1lres = 2.2
1080._at: etot  = 3.6
        L1lres = 2.3
1081._at: etot  = 3.6
        L1lres = 2.4
1082._at: etot  = 3.6
        L1lres = 2.5
1083._at: etot  = 3.6
        L1lres = 2.6
1084._at: etot  = 3.6
        L1lres = 2.7
1085._at: etot  = 3.6
        L1lres = 2.8
1086._at: etot  = 3.6
        L1lres = 2.9
1087._at: etot  = 3.6
        L1lres = 3
1088._at: etot  = 3.6
        L1lres = 3.1
1089._at: etot  = 3.6
        L1lres = 3.2
1090._at: etot  = 3.6
        L1lres = 3.3
1091._at: etot  = 3.6
        L1lres = 3.4

```

```

1092._at: etot  = 3.6
          L1lres = 3.5
1093._at: etot  = 3.6
          L1lres = 3.6
1094._at: etot  = 3.6
          L1lres = 3.7
1095._at: etot  = 3.6
          L1lres = 3.8
1096._at: etot  = 3.6
          L1lres = 3.9
1097._at: etot  = 3.6
          L1lres = 4
1098._at: etot  = 3.6
          L1lres = 4.1
1099._at: etot  = 3.6
          L1lres = 4.2
1100._at: etot  = 3.6
          L1lres = 4.3
1101._at: etot  = 3.6
          L1lres = 4.4
1102._at: etot  = 3.6
          L1lres = 4.5
1103._at: etot  = 3.6
          L1lres = 4.6
1104._at: etot  = 3.6
          L1lres = 4.7
1105._at: etot  = 3.6
          L1lres = 4.8
1106._at: etot  = 3.6
          L1lres = 4.9
1107._at: etot  = 3.6
          L1lres = 5
1108._at: etot  = 3.7
          L1lres = 1
1109._at: etot  = 3.7
          L1lres = 1.1
1110._at: etot  = 3.7
          L1lres = 1.2
1111._at: etot  = 3.7
          L1lres = 1.3
1112._at: etot  = 3.7
          L1lres = 1.4
1113._at: etot  = 3.7
          L1lres = 1.5
1114._at: etot  = 3.7
          L1lres = 1.6
1115._at: etot  = 3.7
          L1lres = 1.7
1116._at: etot  = 3.7
          L1lres = 1.8
1117._at: etot  = 3.7
          L1lres = 1.9
1118._at: etot  = 3.7
          L1lres = 2
1119._at: etot  = 3.7
          L1lres = 2.1
1120._at: etot  = 3.7
          L1lres = 2.2
1121._at: etot  = 3.7
          L1lres = 2.3
1122._at: etot  = 3.7
          L1lres = 2.4
1123._at: etot  = 3.7
          L1lres = 2.5
1124._at: etot  = 3.7
          L1lres = 2.6
1125._at: etot  = 3.7
          L1lres = 2.7
1126._at: etot  = 3.7
          L1lres = 2.8
1127._at: etot  = 3.7
          L1lres = 2.9
1128._at: etot  = 3.7

```



```

        L1lres = 3
1129._at: etot = 3.7
        L1lres = 3.1
1130._at: etot = 3.7
        L1lres = 3.2
1131._at: etot = 3.7
        L1lres = 3.3
1132._at: etot = 3.7
        L1lres = 3.4
1133._at: etot = 3.7
        L1lres = 3.5
1134._at: etot = 3.7
        L1lres = 3.6
1135._at: etot = 3.7
        L1lres = 3.7
1136._at: etot = 3.7
        L1lres = 3.8
1137._at: etot = 3.7
        L1lres = 3.9
1138._at: etot = 3.7
        L1lres = 4
1139._at: etot = 3.7
        L1lres = 4.1
1140._at: etot = 3.7
        L1lres = 4.2
1141._at: etot = 3.7
        L1lres = 4.3
1142._at: etot = 3.7
        L1lres = 4.4
1143._at: etot = 3.7
        L1lres = 4.5
1144._at: etot = 3.7
        L1lres = 4.6
1145._at: etot = 3.7
        L1lres = 4.7
1146._at: etot = 3.7
        L1lres = 4.8
1147._at: etot = 3.7
        L1lres = 4.9
1148._at: etot = 3.7
        L1lres = 5
1149._at: etot = 3.8
        L1lres = 1
1150._at: etot = 3.8
        L1lres = 1.1
1151._at: etot = 3.8
        L1lres = 1.2
1152._at: etot = 3.8
        L1lres = 1.3
1153._at: etot = 3.8
        L1lres = 1.4
1154._at: etot = 3.8
        L1lres = 1.5
1155._at: etot = 3.8
        L1lres = 1.6
1156._at: etot = 3.8
        L1lres = 1.7
1157._at: etot = 3.8
        L1lres = 1.8
1158._at: etot = 3.8
        L1lres = 1.9
1159._at: etot = 3.8
        L1lres = 2
1160._at: etot = 3.8
        L1lres = 2.1
1161._at: etot = 3.8
        L1lres = 2.2
1162._at: etot = 3.8
        L1lres = 2.3
1163._at: etot = 3.8
        L1lres = 2.4
1164._at: etot = 3.8
        L1lres = 2.5

```

```

1165._at: etot  = 3.8
          L1lres = 2.6
1166._at: etot  = 3.8
          L1lres = 2.7
1167._at: etot  = 3.8
          L1lres = 2.8
1168._at: etot  = 3.8
          L1lres = 2.9
1169._at: etot  = 3.8
          L1lres = 3
1170._at: etot  = 3.8
          L1lres = 3.1
1171._at: etot  = 3.8
          L1lres = 3.2
1172._at: etot  = 3.8
          L1lres = 3.3
1173._at: etot  = 3.8
          L1lres = 3.4
1174._at: etot  = 3.8
          L1lres = 3.5
1175._at: etot  = 3.8
          L1lres = 3.6
1176._at: etot  = 3.8
          L1lres = 3.7
1177._at: etot  = 3.8
          L1lres = 3.8
1178._at: etot  = 3.8
          L1lres = 3.9
1179._at: etot  = 3.8
          L1lres = 4
1180._at: etot  = 3.8
          L1lres = 4.1
1181._at: etot  = 3.8
          L1lres = 4.2
1182._at: etot  = 3.8
          L1lres = 4.3
1183._at: etot  = 3.8
          L1lres = 4.4
1184._at: etot  = 3.8
          L1lres = 4.5
1185._at: etot  = 3.8
          L1lres = 4.6
1186._at: etot  = 3.8
          L1lres = 4.7
1187._at: etot  = 3.8
          L1lres = 4.8
1188._at: etot  = 3.8
          L1lres = 4.9
1189._at: etot  = 3.8
          L1lres = 5
1190._at: etot  = 3.9
          L1lres = 1
1191._at: etot  = 3.9
          L1lres = 1.1
1192._at: etot  = 3.9
          L1lres = 1.2
1193._at: etot  = 3.9
          L1lres = 1.3
1194._at: etot  = 3.9
          L1lres = 1.4
1195._at: etot  = 3.9
          L1lres = 1.5
1196._at: etot  = 3.9
          L1lres = 1.6
1197._at: etot  = 3.9
          L1lres = 1.7
1198._at: etot  = 3.9
          L1lres = 1.8
1199._at: etot  = 3.9
          L1lres = 1.9
1200._at: etot  = 3.9
          L1lres = 2
1201._at: etot  = 3.9

```

```

        L1lres = 2.1
1202._at: etot  = 3.9
        L1lres = 2.2
1203._at: etot  = 3.9
        L1lres = 2.3
1204._at: etot  = 3.9
        L1lres = 2.4
1205._at: etot  = 3.9
        L1lres = 2.5
1206._at: etot  = 3.9
        L1lres = 2.6
1207._at: etot  = 3.9
        L1lres = 2.7
1208._at: etot  = 3.9
        L1lres = 2.8
1209._at: etot  = 3.9
        L1lres = 2.9
1210._at: etot  = 3.9
        L1lres = 3
1211._at: etot  = 3.9
        L1lres = 3.1
1212._at: etot  = 3.9
        L1lres = 3.2
1213._at: etot  = 3.9
        L1lres = 3.3
1214._at: etot  = 3.9
        L1lres = 3.4
1215._at: etot  = 3.9
        L1lres = 3.5
1216._at: etot  = 3.9
        L1lres = 3.6
1217._at: etot  = 3.9
        L1lres = 3.7
1218._at: etot  = 3.9
        L1lres = 3.8
1219._at: etot  = 3.9
        L1lres = 3.9
1220._at: etot  = 3.9
        L1lres = 4
1221._at: etot  = 3.9
        L1lres = 4.1
1222._at: etot  = 3.9
        L1lres = 4.2
1223._at: etot  = 3.9
        L1lres = 4.3
1224._at: etot  = 3.9
        L1lres = 4.4
1225._at: etot  = 3.9
        L1lres = 4.5
1226._at: etot  = 3.9
        L1lres = 4.6
1227._at: etot  = 3.9
        L1lres = 4.7
1228._at: etot  = 3.9
        L1lres = 4.8
1229._at: etot  = 3.9
        L1lres = 4.9
1230._at: etot  = 3.9
        L1lres = 5
1231._at: etot  = 4
        L1lres = 1
1232._at: etot  = 4
        L1lres = 1.1
1233._at: etot  = 4
        L1lres = 1.2
1234._at: etot  = 4
        L1lres = 1.3
1235._at: etot  = 4
        L1lres = 1.4
1236._at: etot  = 4
        L1lres = 1.5
1237._at: etot  = 4
        L1lres = 1.6

```

```

1238._at: etot  =  4
          L1lres = 1.7
1239._at: etot  =  4
          L1lres = 1.8
1240._at: etot  =  4
          L1lres = 1.9
1241._at: etot  =  4
          L1lres =  2
1242._at: etot  =  4
          L1lres = 2.1
1243._at: etot  =  4
          L1lres = 2.2
1244._at: etot  =  4
          L1lres = 2.3
1245._at: etot  =  4
          L1lres = 2.4
1246._at: etot  =  4
          L1lres = 2.5
1247._at: etot  =  4
          L1lres = 2.6
1248._at: etot  =  4
          L1lres = 2.7
1249._at: etot  =  4
          L1lres = 2.8
1250._at: etot  =  4
          L1lres = 2.9
1251._at: etot  =  4
          L1lres =  3
1252._at: etot  =  4
          L1lres = 3.1
1253._at: etot  =  4
          L1lres = 3.2
1254._at: etot  =  4
          L1lres = 3.3
1255._at: etot  =  4
          L1lres = 3.4
1256._at: etot  =  4
          L1lres = 3.5
1257._at: etot  =  4
          L1lres = 3.6
1258._at: etot  =  4
          L1lres = 3.7
1259._at: etot  =  4
          L1lres = 3.8
1260._at: etot  =  4
          L1lres = 3.9
1261._at: etot  =  4
          L1lres =  4
1262._at: etot  =  4
          L1lres = 4.1
1263._at: etot  =  4
          L1lres = 4.2
1264._at: etot  =  4
          L1lres = 4.3
1265._at: etot  =  4
          L1lres = 4.4
1266._at: etot  =  4
          L1lres = 4.5
1267._at: etot  =  4
          L1lres = 4.6
1268._at: etot  =  4
          L1lres = 4.7
1269._at: etot  =  4
          L1lres = 4.8
1270._at: etot  =  4
          L1lres = 4.9
1271._at: etot  =  4
          L1lres =  5
1272._at: etot  = 4.1
          L1lres =  1
1273._at: etot  = 4.1
          L1lres = 1.1
1274._at: etot  = 4.1

```

```

        L1lres = 1.2
1275._at: etot  = 4.1
        L1lres = 1.3
1276._at: etot  = 4.1
        L1lres = 1.4
1277._at: etot  = 4.1
        L1lres = 1.5
1278._at: etot  = 4.1
        L1lres = 1.6
1279._at: etot  = 4.1
        L1lres = 1.7
1280._at: etot  = 4.1
        L1lres = 1.8
1281._at: etot  = 4.1
        L1lres = 1.9
1282._at: etot  = 4.1
        L1lres = 2
1283._at: etot  = 4.1
        L1lres = 2.1
1284._at: etot  = 4.1
        L1lres = 2.2
1285._at: etot  = 4.1
        L1lres = 2.3
1286._at: etot  = 4.1
        L1lres = 2.4
1287._at: etot  = 4.1
        L1lres = 2.5
1288._at: etot  = 4.1
        L1lres = 2.6
1289._at: etot  = 4.1
        L1lres = 2.7
1290._at: etot  = 4.1
        L1lres = 2.8
1291._at: etot  = 4.1
        L1lres = 2.9
1292._at: etot  = 4.1
        L1lres = 3
1293._at: etot  = 4.1
        L1lres = 3.1
1294._at: etot  = 4.1
        L1lres = 3.2
1295._at: etot  = 4.1
        L1lres = 3.3
1296._at: etot  = 4.1
        L1lres = 3.4
1297._at: etot  = 4.1
        L1lres = 3.5
1298._at: etot  = 4.1
        L1lres = 3.6
1299._at: etot  = 4.1
        L1lres = 3.7
1300._at: etot  = 4.1
        L1lres = 3.8
1301._at: etot  = 4.1
        L1lres = 3.9
1302._at: etot  = 4.1
        L1lres = 4
1303._at: etot  = 4.1
        L1lres = 4.1
1304._at: etot  = 4.1
        L1lres = 4.2
1305._at: etot  = 4.1
        L1lres = 4.3
1306._at: etot  = 4.1
        L1lres = 4.4
1307._at: etot  = 4.1
        L1lres = 4.5
1308._at: etot  = 4.1
        L1lres = 4.6
1309._at: etot  = 4.1
        L1lres = 4.7
1310._at: etot  = 4.1
        L1lres = 4.8

```

```

1311._at: etot  = 4.1
          L1lres = 4.9
1312._at: etot  = 4.1
          L1lres = 5
1313._at: etot  = 4.2
          L1lres = 1
1314._at: etot  = 4.2
          L1lres = 1.1
1315._at: etot  = 4.2
          L1lres = 1.2
1316._at: etot  = 4.2
          L1lres = 1.3
1317._at: etot  = 4.2
          L1lres = 1.4
1318._at: etot  = 4.2
          L1lres = 1.5
1319._at: etot  = 4.2
          L1lres = 1.6
1320._at: etot  = 4.2
          L1lres = 1.7
1321._at: etot  = 4.2
          L1lres = 1.8
1322._at: etot  = 4.2
          L1lres = 1.9
1323._at: etot  = 4.2
          L1lres = 2
1324._at: etot  = 4.2
          L1lres = 2.1
1325._at: etot  = 4.2
          L1lres = 2.2
1326._at: etot  = 4.2
          L1lres = 2.3
1327._at: etot  = 4.2
          L1lres = 2.4
1328._at: etot  = 4.2
          L1lres = 2.5
1329._at: etot  = 4.2
          L1lres = 2.6
1330._at: etot  = 4.2
          L1lres = 2.7
1331._at: etot  = 4.2
          L1lres = 2.8
1332._at: etot  = 4.2
          L1lres = 2.9
1333._at: etot  = 4.2
          L1lres = 3
1334._at: etot  = 4.2
          L1lres = 3.1
1335._at: etot  = 4.2
          L1lres = 3.2
1336._at: etot  = 4.2
          L1lres = 3.3
1337._at: etot  = 4.2
          L1lres = 3.4
1338._at: etot  = 4.2
          L1lres = 3.5
1339._at: etot  = 4.2
          L1lres = 3.6
1340._at: etot  = 4.2
          L1lres = 3.7
1341._at: etot  = 4.2
          L1lres = 3.8
1342._at: etot  = 4.2
          L1lres = 3.9
1343._at: etot  = 4.2
          L1lres = 4
1344._at: etot  = 4.2
          L1lres = 4.1
1345._at: etot  = 4.2
          L1lres = 4.2
1346._at: etot  = 4.2
          L1lres = 4.3
1347._at: etot  = 4.2

```

```

        L1lres = 4.4
1348._at: etot  = 4.2
        L1lres = 4.5
1349._at: etot  = 4.2
        L1lres = 4.6
1350._at: etot  = 4.2
        L1lres = 4.7
1351._at: etot  = 4.2
        L1lres = 4.8
1352._at: etot  = 4.2
        L1lres = 4.9
1353._at: etot  = 4.2
        L1lres = 5
1354._at: etot  = 4.3
        L1lres = 1
1355._at: etot  = 4.3
        L1lres = 1.1
1356._at: etot  = 4.3
        L1lres = 1.2
1357._at: etot  = 4.3
        L1lres = 1.3
1358._at: etot  = 4.3
        L1lres = 1.4
1359._at: etot  = 4.3
        L1lres = 1.5
1360._at: etot  = 4.3
        L1lres = 1.6
1361._at: etot  = 4.3
        L1lres = 1.7
1362._at: etot  = 4.3
        L1lres = 1.8
1363._at: etot  = 4.3
        L1lres = 1.9
1364._at: etot  = 4.3
        L1lres = 2
1365._at: etot  = 4.3
        L1lres = 2.1
1366._at: etot  = 4.3
        L1lres = 2.2
1367._at: etot  = 4.3
        L1lres = 2.3
1368._at: etot  = 4.3
        L1lres = 2.4
1369._at: etot  = 4.3
        L1lres = 2.5
1370._at: etot  = 4.3
        L1lres = 2.6
1371._at: etot  = 4.3
        L1lres = 2.7
1372._at: etot  = 4.3
        L1lres = 2.8
1373._at: etot  = 4.3
        L1lres = 2.9
1374._at: etot  = 4.3
        L1lres = 3
1375._at: etot  = 4.3
        L1lres = 3.1
1376._at: etot  = 4.3
        L1lres = 3.2
1377._at: etot  = 4.3
        L1lres = 3.3
1378._at: etot  = 4.3
        L1lres = 3.4
1379._at: etot  = 4.3
        L1lres = 3.5
1380._at: etot  = 4.3
        L1lres = 3.6
1381._at: etot  = 4.3
        L1lres = 3.7
1382._at: etot  = 4.3
        L1lres = 3.8
1383._at: etot  = 4.3
        L1lres = 3.9

```

```

1384._at: etot  = 4.3
          L1lres = 4
1385._at: etot  = 4.3
          L1lres = 4.1
1386._at: etot  = 4.3
          L1lres = 4.2
1387._at: etot  = 4.3
          L1lres = 4.3
1388._at: etot  = 4.3
          L1lres = 4.4
1389._at: etot  = 4.3
          L1lres = 4.5
1390._at: etot  = 4.3
          L1lres = 4.6
1391._at: etot  = 4.3
          L1lres = 4.7
1392._at: etot  = 4.3
          L1lres = 4.8
1393._at: etot  = 4.3
          L1lres = 4.9
1394._at: etot  = 4.3
          L1lres = 5
1395._at: etot  = 4.4
          L1lres = 1
1396._at: etot  = 4.4
          L1lres = 1.1
1397._at: etot  = 4.4
          L1lres = 1.2
1398._at: etot  = 4.4
          L1lres = 1.3
1399._at: etot  = 4.4
          L1lres = 1.4
1400._at: etot  = 4.4
          L1lres = 1.5
1401._at: etot  = 4.4
          L1lres = 1.6
1402._at: etot  = 4.4
          L1lres = 1.7
1403._at: etot  = 4.4
          L1lres = 1.8
1404._at: etot  = 4.4
          L1lres = 1.9
1405._at: etot  = 4.4
          L1lres = 2
1406._at: etot  = 4.4
          L1lres = 2.1
1407._at: etot  = 4.4
          L1lres = 2.2
1408._at: etot  = 4.4
          L1lres = 2.3
1409._at: etot  = 4.4
          L1lres = 2.4
1410._at: etot  = 4.4
          L1lres = 2.5
1411._at: etot  = 4.4
          L1lres = 2.6
1412._at: etot  = 4.4
          L1lres = 2.7
1413._at: etot  = 4.4
          L1lres = 2.8
1414._at: etot  = 4.4
          L1lres = 2.9
1415._at: etot  = 4.4
          L1lres = 3
1416._at: etot  = 4.4
          L1lres = 3.1
1417._at: etot  = 4.4
          L1lres = 3.2
1418._at: etot  = 4.4
          L1lres = 3.3
1419._at: etot  = 4.4
          L1lres = 3.4
1420._at: etot  = 4.4

```



```
L1lres = 3.5
1421._at: etot = 4.4
          L1lres = 3.6
1422._at: etot = 4.4
          L1lres = 3.7
1423._at: etot = 4.4
          L1lres = 3.8
1424._at: etot = 4.4
          L1lres = 3.9
1425._at: etot = 4.4
          L1lres = 4
1426._at: etot = 4.4
          L1lres = 4.1
1427._at: etot = 4.4
          L1lres = 4.2
1428._at: etot = 4.4
          L1lres = 4.3
1429._at: etot = 4.4
          L1lres = 4.4
1430._at: etot = 4.4
          L1lres = 4.5
1431._at: etot = 4.4
          L1lres = 4.6
1432._at: etot = 4.4
          L1lres = 4.7
1433._at: etot = 4.4
          L1lres = 4.8
1434._at: etot = 4.4
          L1lres = 4.9
1435._at: etot = 4.4
          L1lres = 5
1436._at: etot = 4.5
          L1lres = 1
1437._at: etot = 4.5
          L1lres = 1.1
1438._at: etot = 4.5
          L1lres = 1.2
1439._at: etot = 4.5
          L1lres = 1.3
1440._at: etot = 4.5
          L1lres = 1.4
1441._at: etot = 4.5
          L1lres = 1.5
1442._at: etot = 4.5
          L1lres = 1.6
1443._at: etot = 4.5
          L1lres = 1.7
1444._at: etot = 4.5
          L1lres = 1.8
1445._at: etot = 4.5
          L1lres = 1.9
1446._at: etot = 4.5
          L1lres = 2
1447._at: etot = 4.5
          L1lres = 2.1
1448._at: etot = 4.5
          L1lres = 2.2
1449._at: etot = 4.5
          L1lres = 2.3
1450._at: etot = 4.5
          L1lres = 2.4
1451._at: etot = 4.5
          L1lres = 2.5
1452._at: etot = 4.5
          L1lres = 2.6
1453._at: etot = 4.5
          L1lres = 2.7
1454._at: etot = 4.5
          L1lres = 2.8
1455._at: etot = 4.5
          L1lres = 2.9
1456._at: etot = 4.5
          L1lres = 3
```

```

1457._at: etot  = 4.5
          L1lres = 3.1
1458._at: etot  = 4.5
          L1lres = 3.2
1459._at: etot  = 4.5
          L1lres = 3.3
1460._at: etot  = 4.5
          L1lres = 3.4
1461._at: etot  = 4.5
          L1lres = 3.5
1462._at: etot  = 4.5
          L1lres = 3.6
1463._at: etot  = 4.5
          L1lres = 3.7
1464._at: etot  = 4.5
          L1lres = 3.8
1465._at: etot  = 4.5
          L1lres = 3.9
1466._at: etot  = 4.5
          L1lres = 4
1467._at: etot  = 4.5
          L1lres = 4.1
1468._at: etot  = 4.5
          L1lres = 4.2
1469._at: etot  = 4.5
          L1lres = 4.3
1470._at: etot  = 4.5
          L1lres = 4.4
1471._at: etot  = 4.5
          L1lres = 4.5
1472._at: etot  = 4.5
          L1lres = 4.6
1473._at: etot  = 4.5
          L1lres = 4.7
1474._at: etot  = 4.5
          L1lres = 4.8
1475._at: etot  = 4.5
          L1lres = 4.9
1476._at: etot  = 4.5
          L1lres = 5
1477._at: etot  = 4.6
          L1lres = 1
1478._at: etot  = 4.6
          L1lres = 1.1
1479._at: etot  = 4.6
          L1lres = 1.2
1480._at: etot  = 4.6
          L1lres = 1.3
1481._at: etot  = 4.6
          L1lres = 1.4
1482._at: etot  = 4.6
          L1lres = 1.5
1483._at: etot  = 4.6
          L1lres = 1.6
1484._at: etot  = 4.6
          L1lres = 1.7
1485._at: etot  = 4.6
          L1lres = 1.8
1486._at: etot  = 4.6
          L1lres = 1.9
1487._at: etot  = 4.6
          L1lres = 2
1488._at: etot  = 4.6
          L1lres = 2.1
1489._at: etot  = 4.6
          L1lres = 2.2
1490._at: etot  = 4.6
          L1lres = 2.3
1491._at: etot  = 4.6
          L1lres = 2.4
1492._at: etot  = 4.6
          L1lres = 2.5
1493._at: etot  = 4.6

```

```

        L1lres = 2.6
1494._at: etot  = 4.6
        L1lres = 2.7
1495._at: etot  = 4.6
        L1lres = 2.8
1496._at: etot  = 4.6
        L1lres = 2.9
1497._at: etot  = 4.6
        L1lres = 3
1498._at: etot  = 4.6
        L1lres = 3.1
1499._at: etot  = 4.6
        L1lres = 3.2
1500._at: etot  = 4.6
        L1lres = 3.3
1501._at: etot  = 4.6
        L1lres = 3.4
1502._at: etot  = 4.6
        L1lres = 3.5
1503._at: etot  = 4.6
        L1lres = 3.6
1504._at: etot  = 4.6
        L1lres = 3.7
1505._at: etot  = 4.6
        L1lres = 3.8
1506._at: etot  = 4.6
        L1lres = 3.9
1507._at: etot  = 4.6
        L1lres = 4
1508._at: etot  = 4.6
        L1lres = 4.1
1509._at: etot  = 4.6
        L1lres = 4.2
1510._at: etot  = 4.6
        L1lres = 4.3
1511._at: etot  = 4.6
        L1lres = 4.4
1512._at: etot  = 4.6
        L1lres = 4.5
1513._at: etot  = 4.6
        L1lres = 4.6
1514._at: etot  = 4.6
        L1lres = 4.7
1515._at: etot  = 4.6
        L1lres = 4.8
1516._at: etot  = 4.6
        L1lres = 4.9
1517._at: etot  = 4.6
        L1lres = 5
1518._at: etot  = 4.7
        L1lres = 1
1519._at: etot  = 4.7
        L1lres = 1.1
1520._at: etot  = 4.7
        L1lres = 1.2
1521._at: etot  = 4.7
        L1lres = 1.3
1522._at: etot  = 4.7
        L1lres = 1.4
1523._at: etot  = 4.7
        L1lres = 1.5
1524._at: etot  = 4.7
        L1lres = 1.6
1525._at: etot  = 4.7
        L1lres = 1.7
1526._at: etot  = 4.7
        L1lres = 1.8
1527._at: etot  = 4.7
        L1lres = 1.9
1528._at: etot  = 4.7
        L1lres = 2
1529._at: etot  = 4.7
        L1lres = 2.1

```

```

1530._at: etot  = 4.7
          L1lres = 2.2
1531._at: etot  = 4.7
          L1lres = 2.3
1532._at: etot  = 4.7
          L1lres = 2.4
1533._at: etot  = 4.7
          L1lres = 2.5
1534._at: etot  = 4.7
          L1lres = 2.6
1535._at: etot  = 4.7
          L1lres = 2.7
1536._at: etot  = 4.7
          L1lres = 2.8
1537._at: etot  = 4.7
          L1lres = 2.9
1538._at: etot  = 4.7
          L1lres = 3
1539._at: etot  = 4.7
          L1lres = 3.1
1540._at: etot  = 4.7
          L1lres = 3.2
1541._at: etot  = 4.7
          L1lres = 3.3
1542._at: etot  = 4.7
          L1lres = 3.4
1543._at: etot  = 4.7
          L1lres = 3.5
1544._at: etot  = 4.7
          L1lres = 3.6
1545._at: etot  = 4.7
          L1lres = 3.7
1546._at: etot  = 4.7
          L1lres = 3.8
1547._at: etot  = 4.7
          L1lres = 3.9
1548._at: etot  = 4.7
          L1lres = 4
1549._at: etot  = 4.7
          L1lres = 4.1
1550._at: etot  = 4.7
          L1lres = 4.2
1551._at: etot  = 4.7
          L1lres = 4.3
1552._at: etot  = 4.7
          L1lres = 4.4
1553._at: etot  = 4.7
          L1lres = 4.5
1554._at: etot  = 4.7
          L1lres = 4.6
1555._at: etot  = 4.7
          L1lres = 4.7
1556._at: etot  = 4.7
          L1lres = 4.8
1557._at: etot  = 4.7
          L1lres = 4.9
1558._at: etot  = 4.7
          L1lres = 5
1559._at: etot  = 4.8
          L1lres = 1
1560._at: etot  = 4.8
          L1lres = 1.1
1561._at: etot  = 4.8
          L1lres = 1.2
1562._at: etot  = 4.8
          L1lres = 1.3
1563._at: etot  = 4.8
          L1lres = 1.4
1564._at: etot  = 4.8
          L1lres = 1.5
1565._at: etot  = 4.8
          L1lres = 1.6
1566._at: etot  = 4.8

```

```

        L1lres = 1.7
1567._at: etot  = 4.8
        L1lres = 1.8
1568._at: etot  = 4.8
        L1lres = 1.9
1569._at: etot  = 4.8
        L1lres = 2
1570._at: etot  = 4.8
        L1lres = 2.1
1571._at: etot  = 4.8
        L1lres = 2.2
1572._at: etot  = 4.8
        L1lres = 2.3
1573._at: etot  = 4.8
        L1lres = 2.4
1574._at: etot  = 4.8
        L1lres = 2.5
1575._at: etot  = 4.8
        L1lres = 2.6
1576._at: etot  = 4.8
        L1lres = 2.7
1577._at: etot  = 4.8
        L1lres = 2.8
1578._at: etot  = 4.8
        L1lres = 2.9
1579._at: etot  = 4.8
        L1lres = 3
1580._at: etot  = 4.8
        L1lres = 3.1
1581._at: etot  = 4.8
        L1lres = 3.2
1582._at: etot  = 4.8
        L1lres = 3.3
1583._at: etot  = 4.8
        L1lres = 3.4
1584._at: etot  = 4.8
        L1lres = 3.5
1585._at: etot  = 4.8
        L1lres = 3.6
1586._at: etot  = 4.8
        L1lres = 3.7
1587._at: etot  = 4.8
        L1lres = 3.8
1588._at: etot  = 4.8
        L1lres = 3.9
1589._at: etot  = 4.8
        L1lres = 4
1590._at: etot  = 4.8
        L1lres = 4.1
1591._at: etot  = 4.8
        L1lres = 4.2
1592._at: etot  = 4.8
        L1lres = 4.3
1593._at: etot  = 4.8
        L1lres = 4.4
1594._at: etot  = 4.8
        L1lres = 4.5
1595._at: etot  = 4.8
        L1lres = 4.6
1596._at: etot  = 4.8
        L1lres = 4.7
1597._at: etot  = 4.8
        L1lres = 4.8
1598._at: etot  = 4.8
        L1lres = 4.9
1599._at: etot  = 4.8
        L1lres = 5
1600._at: etot  = 4.9
        L1lres = 1
1601._at: etot  = 4.9
        L1lres = 1.1
1602._at: etot  = 4.9
        L1lres = 1.2

```

```

1603._at: etot  = 4.9
          L1lres = 1.3
1604._at: etot  = 4.9
          L1lres = 1.4
1605._at: etot  = 4.9
          L1lres = 1.5
1606._at: etot  = 4.9
          L1lres = 1.6
1607._at: etot  = 4.9
          L1lres = 1.7
1608._at: etot  = 4.9
          L1lres = 1.8
1609._at: etot  = 4.9
          L1lres = 1.9
1610._at: etot  = 4.9
          L1lres = 2
1611._at: etot  = 4.9
          L1lres = 2.1
1612._at: etot  = 4.9
          L1lres = 2.2
1613._at: etot  = 4.9
          L1lres = 2.3
1614._at: etot  = 4.9
          L1lres = 2.4
1615._at: etot  = 4.9
          L1lres = 2.5
1616._at: etot  = 4.9
          L1lres = 2.6
1617._at: etot  = 4.9
          L1lres = 2.7
1618._at: etot  = 4.9
          L1lres = 2.8
1619._at: etot  = 4.9
          L1lres = 2.9
1620._at: etot  = 4.9
          L1lres = 3
1621._at: etot  = 4.9
          L1lres = 3.1
1622._at: etot  = 4.9
          L1lres = 3.2
1623._at: etot  = 4.9
          L1lres = 3.3
1624._at: etot  = 4.9
          L1lres = 3.4
1625._at: etot  = 4.9
          L1lres = 3.5
1626._at: etot  = 4.9
          L1lres = 3.6
1627._at: etot  = 4.9
          L1lres = 3.7
1628._at: etot  = 4.9
          L1lres = 3.8
1629._at: etot  = 4.9
          L1lres = 3.9
1630._at: etot  = 4.9
          L1lres = 4
1631._at: etot  = 4.9
          L1lres = 4.1
1632._at: etot  = 4.9
          L1lres = 4.2
1633._at: etot  = 4.9
          L1lres = 4.3
1634._at: etot  = 4.9
          L1lres = 4.4
1635._at: etot  = 4.9
          L1lres = 4.5
1636._at: etot  = 4.9
          L1lres = 4.6
1637._at: etot  = 4.9
          L1lres = 4.7
1638._at: etot  = 4.9
          L1lres = 4.8
1639._at: etot  = 4.9

```

```
L1lres = 4.9
1640._at: etot = 4.9
L1lres = 5
1641._at: etot = 5
L1lres = 1
1642._at: etot = 5
L1lres = 1.1
1643._at: etot = 5
L1lres = 1.2
1644._at: etot = 5
L1lres = 1.3
1645._at: etot = 5
L1lres = 1.4
1646._at: etot = 5
L1lres = 1.5
1647._at: etot = 5
L1lres = 1.6
1648._at: etot = 5
L1lres = 1.7
1649._at: etot = 5
L1lres = 1.8
1650._at: etot = 5
L1lres = 1.9
1651._at: etot = 5
L1lres = 2
1652._at: etot = 5
L1lres = 2.1
1653._at: etot = 5
L1lres = 2.2
1654._at: etot = 5
L1lres = 2.3
1655._at: etot = 5
L1lres = 2.4
1656._at: etot = 5
L1lres = 2.5
1657._at: etot = 5
L1lres = 2.6
1658._at: etot = 5
L1lres = 2.7
1659._at: etot = 5
L1lres = 2.8
1660._at: etot = 5
L1lres = 2.9
1661._at: etot = 5
L1lres = 3
1662._at: etot = 5
L1lres = 3.1
1663._at: etot = 5
L1lres = 3.2
1664._at: etot = 5
L1lres = 3.3
1665._at: etot = 5
L1lres = 3.4
1666._at: etot = 5
L1lres = 3.5
1667._at: etot = 5
L1lres = 3.6
1668._at: etot = 5
L1lres = 3.7
1669._at: etot = 5
L1lres = 3.8
1670._at: etot = 5
L1lres = 3.9
1671._at: etot = 5
L1lres = 4
1672._at: etot = 5
L1lres = 4.1
1673._at: etot = 5
L1lres = 4.2
1674._at: etot = 5
L1lres = 4.3
1675._at: etot = 5
L1lres = 4.4
```

```

1676._at: etot   = 5
          L1lres = 4.5
1677._at: etot   = 5
          L1lres = 4.6
1678._at: etot   = 5
          L1lres = 4.7
1679._at: etot   = 5
          L1lres = 4.8
1680._at: etot   = 5
          L1lres = 4.9
1681._at: etot   = 5
          L1lres = 5

```

	Delta-method				[95% conf. interval]	
	Margin	std. err.	z	P> z		
_at						
1	4.624666	.0154271	299.77	0.000	4.594429	4.654902
2	4.624017	.0147914	312.62	0.000	4.595027	4.653008
3	4.623369	.0141753	326.16	0.000	4.595586	4.651152
4	4.62272	.0135817	340.36	0.000	4.596101	4.64934
5	4.622072	.0130135	355.18	0.000	4.596566	4.647578
6	4.621424	.0124743	370.48	0.000	4.596975	4.645873
7	4.620775	.0119679	386.10	0.000	4.597319	4.644232
8	4.620127	.0114988	401.79	0.000	4.59759	4.642664
9	4.619479	.0110716	417.24	0.000	4.597779	4.641179
10	4.61883	.0106914	432.01	0.000	4.597876	4.639785
11	4.618182	.0103633	445.63	0.000	4.59787	4.638494
12	4.617534	.0100924	457.52	0.000	4.597753	4.637315
13	4.616885	.0098835	467.13	0.000	4.597514	4.636257
14	4.616237	.0097405	473.92	0.000	4.597146	4.635328
15	4.615589	.0096664	477.49	0.000	4.596643	4.634534
16	4.61494	.0096627	477.60	0.000	4.596002	4.633879
17	4.614292	.0097295	474.26	0.000	4.595223	4.633361
18	4.613644	.0098654	467.66	0.000	4.594308	4.632979
19	4.612995	.0100675	458.21	0.000	4.593263	4.632727
20	4.612347	.0103321	446.41	0.000	4.592096	4.632597
21	4.611699	.0106544	432.85	0.000	4.590816	4.632581
22	4.61105	.0110294	418.07	0.000	4.589433	4.632667
23	4.610402	.0114519	402.59	0.000	4.587957	4.632847
24	4.609754	.0119168	386.83	0.000	4.586397	4.63311
25	4.609105	.0124195	371.12	0.000	4.584764	4.633447
26	4.608457	.0129554	355.72	0.000	4.583065	4.633849
27	4.607809	.0135207	340.80	0.000	4.581308	4.634309
28	4.60716	.0141119	326.47	0.000	4.579501	4.634819
29	4.606512	.0147257	312.82	0.000	4.57765	4.635374
30	4.605864	.0153595	299.87	0.000	4.575759	4.635968
31	4.605215	.016011	287.63	0.000	4.573834	4.636596
32	4.604567	.0166779	276.09	0.000	4.571879	4.637255
33	4.603919	.0173587	265.22	0.000	4.569896	4.637941
34	4.60327	.0180516	255.01	0.000	4.56789	4.638651
35	4.602622	.0187554	245.40	0.000	4.565862	4.639382
36	4.601973	.0194689	236.38	0.000	4.563815	4.640132
37	4.601325	.020191	227.89	0.000	4.561752	4.640899
38	4.600677	.0209208	219.91	0.000	4.559673	4.641681
39	4.600028	.0216577	212.40	0.000	4.55758	4.642477
40	4.59938	.0224008	205.32	0.000	4.555475	4.643285
41	4.598732	.0231496	198.65	0.000	4.553359	4.644104
42	4.624633	.0156581	295.35	0.000	4.593944	4.655323
43	4.623879	.0150065	308.12	0.000	4.594466	4.653291
44	4.623124	.014375	321.61	0.000	4.594949	4.651298
45	4.622369	.0137662	335.78	0.000	4.595388	4.64935
46	4.621614	.0131834	350.56	0.000	4.595775	4.647453
47	4.62086	.0126301	365.86	0.000	4.596105	4.645614
48	4.620105	.0121104	381.50	0.000	4.596369	4.643841
49	4.61935	.0116288	397.23	0.000	4.596558	4.642142
50	4.618595	.0111902	412.74	0.000	4.596663	4.640528
51	4.617841	.0107998	427.58	0.000	4.596673	4.639008
52	4.617086	.0104631	441.27	0.000	4.596579	4.637593
53	4.616331	.0101853	453.23	0.000	4.596368	4.636294
54	4.615576	.0099714	462.88	0.000	4.596033	4.63512
55	4.614822	.0098256	469.67	0.000	4.595564	4.634079

56	4.614067	.0097509	473.19	0.000	4.594955	4.633178
57	4.613312	.009749	473.21	0.000	4.594204	4.63242
58	4.612557	.0098198	469.72	0.000	4.593311	4.631804
59	4.611802	.0099619	462.94	0.000	4.592278	4.631327
60	4.611048	.0101722	453.30	0.000	4.59111	4.630985
61	4.610293	.0104467	441.31	0.000	4.589818	4.630768
62	4.609538	.0107805	427.58	0.000	4.588409	4.630667
63	4.608783	.0111681	412.67	0.000	4.586894	4.630673
64	4.608029	.0116043	397.10	0.000	4.585285	4.630773
65	4.607274	.0120837	381.28	0.000	4.58359	4.630958
66	4.606519	.0126015	365.55	0.000	4.581821	4.631218
67	4.605764	.0131531	350.17	0.000	4.579985	4.631544
68	4.60501	.0137344	335.29	0.000	4.578091	4.631929
69	4.604255	.0143419	321.04	0.000	4.576145	4.632364
70	4.6035	.0149723	307.47	0.000	4.574155	4.632845
71	4.602745	.0156228	294.62	0.000	4.572125	4.633365
72	4.601991	.0162911	282.48	0.000	4.570061	4.633921
73	4.601236	.016975	271.06	0.000	4.567965	4.634506
74	4.600481	.0176728	260.31	0.000	4.565843	4.635119
75	4.599726	.0183829	250.22	0.000	4.563697	4.635756
76	4.598972	.0191038	240.74	0.000	4.561529	4.636414
77	4.598217	.0198345	231.83	0.000	4.559342	4.637092
78	4.597462	.0205738	223.46	0.000	4.557138	4.637786
79	4.596707	.0213209	215.60	0.000	4.554919	4.638495
80	4.595952	.0220749	208.20	0.000	4.552686	4.639219
81	4.595198	.0228353	201.23	0.000	4.550441	4.639954
82	4.594443	.0236013	194.67	0.000	4.548185	4.640701
83	4.624601	.015928	290.34	0.000	4.593383	4.65582
84	4.62374	.0152589	303.02	0.000	4.593833	4.653647
85	4.622879	.0146101	316.42	0.000	4.594244	4.651514
86	4.622018	.0139845	330.51	0.000	4.594609	4.649427
87	4.621157	.0133852	345.24	0.000	4.594922	4.647391
88	4.620295	.012816	360.51	0.000	4.595177	4.645414
89	4.619434	.0122811	376.14	0.000	4.595364	4.643505
90	4.618573	.0117851	391.90	0.000	4.595475	4.641672
91	4.617712	.0113332	407.45	0.000	4.595499	4.639925
92	4.616851	.0109308	422.37	0.000	4.595427	4.638275
93	4.61599	.0105836	436.15	0.000	4.595246	4.636733
94	4.615128	.0102971	448.19	0.000	4.594946	4.63531
95	4.614267	.0100766	457.92	0.000	4.594517	4.634017
96	4.613406	.0099264	464.76	0.000	4.593951	4.632861
97	4.612545	.0098498	468.29	0.000	4.59324	4.63185
98	4.611684	.0098484	468.27	0.000	4.592381	4.630986
99	4.610822	.0099223	464.69	0.000	4.591375	4.63027
100	4.609961	.0100699	457.80	0.000	4.590225	4.629698
101	4.6091	.0102879	448.01	0.000	4.588936	4.629264
102	4.608239	.0105721	435.89	0.000	4.587518	4.62896
103	4.607378	.0109172	422.03	0.000	4.585981	4.628775
104	4.606517	.0113176	407.02	0.000	4.584334	4.628699
105	4.605655	.0117678	391.38	0.000	4.582591	4.62872
106	4.604794	.0122623	375.52	0.000	4.580761	4.628828
107	4.603933	.0127959	359.80	0.000	4.578854	4.629012
108	4.603072	.0133639	344.44	0.000	4.576879	4.629265
109	4.602211	.0139621	329.62	0.000	4.574845	4.629576
110	4.601349	.0145869	315.44	0.000	4.57276	4.629939
111	4.600488	.0152349	301.97	0.000	4.570628	4.630348
112	4.599627	.0159033	289.22	0.000	4.568457	4.630797
113	4.598766	.0165897	277.21	0.000	4.566251	4.631281
114	4.597905	.0172918	265.90	0.000	4.564013	4.631796
115	4.597044	.018008	255.28	0.000	4.561749	4.632339
116	4.596182	.0187365	245.31	0.000	4.55946	4.632905
117	4.595321	.0194759	235.95	0.000	4.557149	4.633493
118	4.59446	.0202252	227.17	0.000	4.554819	4.634101
119	4.593599	.0209831	218.92	0.000	4.552473	4.634725
120	4.592738	.0217489	211.17	0.000	4.550111	4.635365
121	4.591877	.0225216	203.89	0.000	4.547735	4.636018
122	4.591015	.0233007	197.03	0.000	4.545347	4.636684
123	4.590154	.0240855	190.58	0.000	4.542947	4.637361
124	4.624569	.0162352	284.85	0.000	4.592749	4.65639
125	4.623602	.0155468	297.40	0.000	4.59313	4.654073
126	4.622634	.0148791	310.68	0.000	4.593472	4.651797
127	4.621666	.0142348	324.67	0.000	4.593767	4.649566
128	4.620699	.0136174	339.32	0.000	4.594009	4.647388

129	4.619731	.0130306	354.53	0.000	4.594192	4.645271
130	4.618764	.0124787	370.13	0.000	4.594306	4.643222
131	4.617796	.0119667	385.89	0.000	4.594342	4.64125
132	4.616828	.0114997	401.47	0.000	4.594289	4.639367
133	4.615861	.0110836	416.46	0.000	4.594138	4.637584
134	4.614893	.0107241	430.33	0.000	4.593874	4.635912
135	4.613926	.0104273	442.49	0.000	4.593489	4.634363
136	4.612958	.0101985	452.32	0.000	4.592969	4.632947
137	4.611991	.0100425	459.25	0.000	4.592308	4.631673
138	4.611023	.0099625	462.84	0.000	4.591497	4.630549
139	4.610055	.0099606	462.83	0.000	4.590533	4.629578
140	4.609088	.0100366	459.23	0.000	4.589416	4.628759
141	4.60812	.0101889	452.27	0.000	4.58815	4.62809
142	4.607153	.0104141	442.39	0.000	4.586741	4.627564
143	4.606185	.0107077	430.18	0.000	4.585198	4.627172
144	4.605217	.0110641	416.23	0.000	4.583532	4.626903
145	4.60425	.0114775	401.15	0.000	4.581754	4.626745
146	4.603282	.0119421	385.47	0.000	4.579876	4.626688
147	4.602315	.012452	369.60	0.000	4.577909	4.62672
148	4.601347	.013002	353.90	0.000	4.575863	4.62683
149	4.600379	.0135872	338.58	0.000	4.573749	4.62701
150	4.599412	.0142032	323.83	0.000	4.571574	4.627249
151	4.598444	.0148461	309.74	0.000	4.569346	4.627542
152	4.597477	.0155128	296.37	0.000	4.567072	4.627881
153	4.596509	.0162001	283.73	0.000	4.564757	4.628261
154	4.595541	.0169057	271.83	0.000	4.562407	4.628676
155	4.594574	.0176273	260.65	0.000	4.560025	4.629123
156	4.593606	.0183629	250.16	0.000	4.557615	4.629597
157	4.592639	.0191111	240.31	0.000	4.555181	4.630096
158	4.591671	.0198704	231.08	0.000	4.552726	4.630616
159	4.590703	.0206395	222.42	0.000	4.550251	4.631156
160	4.589736	.0214174	214.30	0.000	4.547758	4.631713
161	4.588768	.0222032	206.67	0.000	4.545251	4.632286
162	4.587801	.0229961	199.50	0.000	4.542729	4.632872
163	4.586833	.0237953	192.76	0.000	4.540195	4.633471
164	4.585865	.0246002	186.42	0.000	4.53765	4.634081
165	4.624537	.0165773	278.97	0.000	4.592046	4.657028
166	4.623463	.0158683	291.37	0.000	4.592362	4.654564
167	4.622389	.01518	304.50	0.000	4.592637	4.652142
168	4.621315	.0145156	318.37	0.000	4.592865	4.649765
169	4.620241	.0138785	332.91	0.000	4.59304	4.647442
170	4.619167	.0132725	348.03	0.000	4.593154	4.645181
171	4.618093	.0127021	363.57	0.000	4.593198	4.642989
172	4.617019	.0121723	379.31	0.000	4.593162	4.640876
173	4.615945	.0116887	394.91	0.000	4.593036	4.638854
174	4.614871	.0112571	409.95	0.000	4.592807	4.636935
175	4.613797	.0108839	423.91	0.000	4.592465	4.635129
176	4.612723	.0105751	436.19	0.000	4.591996	4.63345
177	4.611649	.0103366	446.15	0.000	4.59139	4.631908
178	4.610575	.0101732	453.21	0.000	4.590636	4.630514
179	4.609501	.0100887	456.90	0.000	4.589727	4.629275
180	4.608427	.0100851	456.95	0.000	4.588661	4.628193
181	4.607353	.0101623	453.38	0.000	4.587435	4.627271
182	4.606279	.0103187	446.40	0.000	4.586055	4.626503
183	4.605205	.0105506	436.49	0.000	4.584526	4.625884
184	4.604131	.0108532	424.22	0.000	4.582859	4.625403
185	4.603057	.0112209	410.22	0.000	4.581064	4.625049
186	4.601983	.0116474	395.11	0.000	4.579154	4.624811
187	4.600909	.0121266	379.41	0.000	4.577141	4.624677
188	4.599835	.0126524	363.55	0.000	4.575037	4.624633
189	4.598761	.0132194	347.88	0.000	4.572851	4.62467
190	4.597687	.0138224	332.63	0.000	4.570595	4.624778
191	4.596613	.0144569	317.95	0.000	4.568278	4.624948
192	4.595539	.015119	303.96	0.000	4.565906	4.625171
193	4.594465	.0158051	290.69	0.000	4.563487	4.625442
194	4.593391	.0165124	278.18	0.000	4.561027	4.625754
195	4.592317	.0172382	266.40	0.000	4.55853	4.626103
196	4.591243	.0179803	255.35	0.000	4.556002	4.626483
197	4.590169	.0187366	244.98	0.000	4.553446	4.626892
198	4.589095	.0195057	235.27	0.000	4.550864	4.627325
199	4.588021	.0202859	226.17	0.000	4.548261	4.62778
200	4.586947	.0210761	217.64	0.000	4.545638	4.628255
201	4.585873	.0218753	209.64	0.000	4.542998	4.628747

202	4.584799	.0226823	202.13	0.000	4.540342	4.629255
203	4.583725	.0234966	195.08	0.000	4.537672	4.629777
204	4.582651	.0243172	188.45	0.000	4.53499	4.630311
205	4.581577	.0251436	182.22	0.000	4.532296	4.630857
206	4.624505	.0169524	272.79	0.000	4.591279	4.657731
207	4.623325	.0162212	285.02	0.000	4.591532	4.655118
208	4.622144	.0155112	297.99	0.000	4.591743	4.652546
209	4.620964	.0148252	311.70	0.000	4.591907	4.650021
210	4.619783	.0141669	326.10	0.000	4.592017	4.64755
211	4.618603	.0135402	341.10	0.000	4.592065	4.645141
212	4.617423	.0129498	356.56	0.000	4.592041	4.642804
213	4.616242	.0124008	372.25	0.000	4.591937	4.640547
214	4.615062	.011899	387.85	0.000	4.59174	4.638383
215	4.613881	.0114506	402.94	0.000	4.591438	4.636324
216	4.612701	.011062	416.98	0.000	4.59102	4.634382
217	4.61152	.0107398	429.38	0.000	4.590471	4.63257
218	4.61034	.0104901	439.49	0.000	4.58978	4.6309
219	4.609159	.0103182	446.70	0.000	4.588936	4.629383
220	4.607979	.0102279	450.53	0.000	4.587933	4.628025
221	4.606799	.0102215	450.70	0.000	4.586765	4.626832
222	4.605618	.010299	447.19	0.000	4.585432	4.625804
223	4.604438	.0104587	440.25	0.000	4.583939	4.624936
224	4.603257	.0106968	430.34	0.000	4.582292	4.624223
225	4.602077	.0110083	418.06	0.000	4.580501	4.623653
226	4.600896	.0113871	404.04	0.000	4.578578	4.623215
227	4.599716	.0118268	388.92	0.000	4.576536	4.622896
228	4.598536	.0123208	373.23	0.000	4.574387	4.622684
229	4.597355	.012863	357.41	0.000	4.572144	4.622566
230	4.596175	.0134474	341.79	0.000	4.569818	4.622531
231	4.594994	.0140689	326.61	0.000	4.56742	4.622569
232	4.593814	.0147226	312.02	0.000	4.564958	4.62267
233	4.592633	.0154046	298.13	0.000	4.562441	4.622826
234	4.591453	.0161112	284.99	0.000	4.559876	4.62303
235	4.590273	.0168393	272.59	0.000	4.557268	4.623277
236	4.589092	.0175863	260.95	0.000	4.554624	4.623561
237	4.587912	.0183498	250.03	0.000	4.551947	4.623877
238	4.586731	.0191279	239.79	0.000	4.549241	4.624221
239	4.585551	.0199189	230.21	0.000	4.54651	4.624591
240	4.58437	.0207212	221.24	0.000	4.543757	4.624983
241	4.58319	.0215337	212.84	0.000	4.540985	4.625395
242	4.582009	.0223552	204.96	0.000	4.538194	4.625825
243	4.580829	.0231847	197.58	0.000	4.535388	4.62627
244	4.579649	.0240215	190.65	0.000	4.532567	4.62673
245	4.578468	.0248647	184.13	0.000	4.529734	4.627202
246	4.577288	.0257138	178.01	0.000	4.52689	4.627686
247	4.624473	.0173583	266.41	0.000	4.590451	4.658495
248	4.623186	.0166037	278.44	0.000	4.590643	4.655729
249	4.621899	.0158705	291.23	0.000	4.590794	4.653005
250	4.620612	.0151617	304.76	0.000	4.590896	4.650329
251	4.619326	.0144809	318.99	0.000	4.590944	4.647708
252	4.618039	.0138323	333.86	0.000	4.590928	4.64515
253	4.616752	.0132205	349.21	0.000	4.59084	4.642664
254	4.615465	.012651	364.83	0.000	4.59067	4.640261
255	4.614178	.0121297	380.40	0.000	4.590405	4.637952
256	4.612891	.011663	395.52	0.000	4.590032	4.63575
257	4.611605	.0112577	409.64	0.000	4.58954	4.633669
258	4.610318	.0109207	422.16	0.000	4.588913	4.631722
259	4.609031	.0106585	432.43	0.000	4.58814	4.629921
260	4.607744	.0104767	439.81	0.000	4.58721	4.628278
261	4.606457	.0103795	443.80	0.000	4.586114	4.626801
262	4.60517	.0103692	444.12	0.000	4.584847	4.625494
263	4.603883	.0104462	440.72	0.000	4.583409	4.624358
264	4.602597	.0106086	433.86	0.000	4.581804	4.623389
265	4.60131	.0108524	423.99	0.000	4.580039	4.62258
266	4.600023	.0111725	411.73	0.000	4.578125	4.62192
267	4.598736	.0115624	397.73	0.000	4.576074	4.621398
268	4.597449	.0120153	382.63	0.000	4.5739	4.620999
269	4.596162	.0125244	366.98	0.000	4.571615	4.62071
270	4.594875	.0130832	351.20	0.000	4.569233	4.620518
271	4.593589	.0136856	335.65	0.000	4.566765	4.620412
272	4.592302	.0143261	320.56	0.000	4.564223	4.62038
273	4.591015	.0149997	306.07	0.000	4.561616	4.620414
274	4.589728	.0157023	292.30	0.000	4.558952	4.620504

275	4.588441	.0164301	279.27	0.000	4.556239	4.620644
276	4.587154	.0171799	267.01	0.000	4.553482	4.620826
277	4.585867	.017949	255.49	0.000	4.550688	4.621047
278	4.584581	.018735	244.71	0.000	4.547861	4.6213
279	4.583294	.0195357	234.61	0.000	4.545004	4.621583
280	4.582007	.0203496	225.16	0.000	4.542122	4.621891
281	4.58072	.0211751	216.33	0.000	4.539218	4.622222
282	4.579433	.0220109	208.05	0.000	4.536293	4.622574
283	4.578146	.0228558	200.31	0.000	4.53335	4.622943
284	4.576859	.0237089	193.04	0.000	4.530391	4.623328
285	4.575573	.0245693	186.23	0.000	4.527418	4.623727
286	4.574286	.0254362	179.83	0.000	4.524432	4.62414
287	4.572999	.0263092	173.82	0.000	4.521434	4.624564
288	4.624441	.0177929	259.90	0.000	4.589568	4.659314
289	4.623048	.0170138	271.72	0.000	4.589701	4.656394
290	4.621654	.0162563	284.30	0.000	4.589793	4.653516
291	4.620261	.0155235	297.63	0.000	4.589836	4.650687
292	4.618868	.014819	311.68	0.000	4.589823	4.647913
293	4.617475	.0141472	326.39	0.000	4.589747	4.645203
294	4.616081	.0135129	341.61	0.000	4.589597	4.642566
295	4.614688	.0129216	357.13	0.000	4.589362	4.640014
296	4.613295	.0123795	372.66	0.000	4.589031	4.637558
297	4.611902	.0118932	387.78	0.000	4.588591	4.635212
298	4.610508	.01147	401.96	0.000	4.588027	4.632989
299	4.609115	.011117	414.60	0.000	4.587326	4.630904
300	4.607722	.0108411	425.02	0.000	4.586474	4.62897
301	4.606328	.0106482	432.59	0.000	4.585458	4.627199
302	4.604935	.0105429	436.78	0.000	4.584271	4.625599
303	4.603542	.0105279	437.27	0.000	4.582908	4.624176
304	4.602149	.0106036	434.02	0.000	4.581366	4.622931
305	4.600755	.010768	427.26	0.000	4.579651	4.62186
306	4.599362	.0110171	417.48	0.000	4.577769	4.620955
307	4.597969	.0113454	405.27	0.000	4.575732	4.620205
308	4.596576	.0117462	391.32	0.000	4.573553	4.619598
309	4.595182	.0122124	376.27	0.000	4.571246	4.619118
310	4.593789	.0127369	360.67	0.000	4.568825	4.618753
311	4.592396	.0133127	344.96	0.000	4.566303	4.618488
312	4.591002	.0139335	329.49	0.000	4.563693	4.618312
313	4.589609	.0145935	314.50	0.000	4.561007	4.618212
314	4.588216	.0152876	300.13	0.000	4.558253	4.618179
315	4.586823	.0160115	286.47	0.000	4.555441	4.618205
316	4.585429	.0167612	273.57	0.000	4.552578	4.618281
317	4.584036	.0175335	261.44	0.000	4.549671	4.618401
318	4.582643	.0183255	250.07	0.000	4.546726	4.61856
319	4.58125	.0191347	239.42	0.000	4.543746	4.618753
320	4.579856	.0199591	229.46	0.000	4.540737	4.618975
321	4.578463	.0207969	220.15	0.000	4.537702	4.619224
322	4.57707	.0216464	211.45	0.000	4.534644	4.619496
323	4.575676	.0225064	203.31	0.000	4.531565	4.619788
324	4.574283	.0233757	195.69	0.000	4.528468	4.620099
325	4.57289	.0242533	188.55	0.000	4.525354	4.620426
326	4.571497	.0251384	181.85	0.000	4.522226	4.620767
327	4.570103	.0260301	175.57	0.000	4.519085	4.621122
328	4.56871	.0269279	169.66	0.000	4.515932	4.621488
329	4.624409	.0182541	253.34	0.000	4.588632	4.660186
330	4.622909	.0174494	264.93	0.000	4.588709	4.657109
331	4.62141	.0166666	277.29	0.000	4.588744	4.654075
332	4.61991	.0159087	290.40	0.000	4.588729	4.65109
333	4.61841	.0151796	304.25	0.000	4.588659	4.648162
334	4.61691	.0144835	318.77	0.000	4.588523	4.645298
335	4.615411	.0138255	333.83	0.000	4.588313	4.642508
336	4.613911	.0132113	349.24	0.000	4.588017	4.639805
337	4.612411	.0126473	364.70	0.000	4.587623	4.6372
338	4.610912	.0121404	379.80	0.000	4.587117	4.634706
339	4.609412	.011698	394.03	0.000	4.586484	4.63234
340	4.607912	.0113278	406.78	0.000	4.58571	4.630114
341	4.606413	.011037	417.36	0.000	4.58478	4.628045
342	4.604913	.010832	425.12	0.000	4.583683	4.626143
343	4.603413	.0107177	429.51	0.000	4.582407	4.62442
344	4.601914	.0106971	430.20	0.000	4.580948	4.622879
345	4.600414	.0107706	427.13	0.000	4.579304	4.621524
346	4.598914	.0109364	420.52	0.000	4.577479	4.620349
347	4.597414	.0111903	410.84	0.000	4.575482	4.619347

348	4.595915	.0115266	398.72	0.000	4.573323	4.618507
349	4.594415	.0119383	384.85	0.000	4.571016	4.617814
350	4.592915	.0124179	369.86	0.000	4.568577	4.617254
351	4.591416	.0129578	354.34	0.000	4.566019	4.616813
352	4.589916	.0135509	338.72	0.000	4.563357	4.616475
353	4.588416	.0141904	323.35	0.000	4.560604	4.616229
354	4.586917	.0148705	308.46	0.000	4.557771	4.616062
355	4.585417	.0155857	294.21	0.000	4.55487	4.615964
356	4.583917	.0163315	280.68	0.000	4.551908	4.615926
357	4.582418	.0171038	267.92	0.000	4.548895	4.61594
358	4.580918	.0178993	255.93	0.000	4.545836	4.616
359	4.579418	.0187149	244.69	0.000	4.542738	4.616099
360	4.577919	.0195483	234.19	0.000	4.539605	4.616232
361	4.576419	.0203971	224.37	0.000	4.536441	4.616396
362	4.574919	.0212595	215.19	0.000	4.533251	4.616587
363	4.573419	.022134	206.62	0.000	4.530038	4.616801
364	4.57192	.0230191	198.61	0.000	4.526803	4.617036
365	4.57042	.0239137	191.12	0.000	4.52355	4.61729
366	4.56892	.0248168	184.11	0.000	4.52028	4.61756
367	4.567421	.0257275	177.53	0.000	4.516996	4.617846
368	4.565921	.0266449	171.36	0.000	4.513698	4.618144
369	4.564421	.0275685	165.57	0.000	4.510388	4.618455
370	4.624377	.01874	246.77	0.000	4.587647	4.661107
371	4.622771	.0179088	258.13	0.000	4.58767	4.657871
372	4.621165	.0170997	270.25	0.000	4.58765	4.654679
373	4.619558	.0163158	283.13	0.000	4.58758	4.651537
374	4.617952	.015561	296.77	0.000	4.587453	4.648451
375	4.616346	.0148397	311.08	0.000	4.587261	4.645432
376	4.61474	.0141571	325.97	0.000	4.586993	4.642488
377	4.613134	.013519	341.23	0.000	4.586637	4.639631
378	4.611528	.012932	356.60	0.000	4.586182	4.636874
379	4.609922	.0124034	371.67	0.000	4.585612	4.634232
380	4.608316	.0119409	385.93	0.000	4.584912	4.631719
381	4.60671	.0115524	398.76	0.000	4.584067	4.629352
382	4.605104	.0112457	409.50	0.000	4.583062	4.627145
383	4.603497	.0110276	417.45	0.000	4.581884	4.625111
384	4.601891	.0109033	422.06	0.000	4.580521	4.623261
385	4.600285	.0108762	422.97	0.000	4.578968	4.621602
386	4.598679	.0109468	420.09	0.000	4.577224	4.620135
387	4.597073	.0111135	413.65	0.000	4.575291	4.618855
388	4.595467	.0113718	404.11	0.000	4.573179	4.617755
389	4.593861	.0117158	392.11	0.000	4.570898	4.616823
390	4.592255	.0121382	378.33	0.000	4.568464	4.616045
391	4.590649	.0126312	363.44	0.000	4.565892	4.615405
392	4.589042	.0131867	348.01	0.000	4.563197	4.614888
393	4.587436	.0137973	332.49	0.000	4.560394	4.614479
394	4.58583	.014456	317.23	0.000	4.557497	4.614163
395	4.584224	.0151565	302.46	0.000	4.554518	4.61393
396	4.582618	.0158933	288.34	0.000	4.551468	4.613768
397	4.581012	.0166616	274.94	0.000	4.548356	4.613668
398	4.579406	.0174572	262.32	0.000	4.54519	4.613621
399	4.5778	.0182765	250.47	0.000	4.541978	4.613621
400	4.576194	.0191166	239.38	0.000	4.538726	4.613661
401	4.574587	.0199747	229.02	0.000	4.535438	4.613737
402	4.572981	.0208486	219.34	0.000	4.532119	4.613844
403	4.571375	.0217366	210.31	0.000	4.528772	4.613978
404	4.569769	.0226368	201.87	0.000	4.525402	4.614136
405	4.568163	.0235479	193.99	0.000	4.52201	4.614316
406	4.566557	.0244687	186.63	0.000	4.518599	4.614515
407	4.564951	.0253981	179.74	0.000	4.515171	4.61473
408	4.563345	.0263352	173.28	0.000	4.511729	4.614961
409	4.561739	.0272792	167.22	0.000	4.508272	4.615205
410	4.560132	.0282295	161.54	0.000	4.504804	4.615461
411	4.624345	.0192487	240.24	0.000	4.586618	4.662071
412	4.622632	.0183902	251.36	0.000	4.586588	4.658676
413	4.62092	.0175538	263.24	0.000	4.586515	4.655325
414	4.619207	.0167431	275.89	0.000	4.586391	4.652023
415	4.617495	.0159618	289.28	0.000	4.58621	4.648779
416	4.615782	.0152144	303.38	0.000	4.585962	4.645602
417	4.61407	.0145063	318.07	0.000	4.585638	4.642501
418	4.612357	.0138434	333.18	0.000	4.585225	4.63949
419	4.610645	.0132325	348.43	0.000	4.584709	4.63658
420	4.608932	.0126813	363.44	0.000	4.584077	4.633787

421	4.607219	.0121977	377.71	0.000	4.583312	4.631126
422	4.605507	.01179	390.63	0.000	4.582399	4.628615
423	4.603794	.0114665	401.50	0.000	4.58132	4.626268
424	4.602082	.0112343	409.65	0.000	4.580063	4.624101
425	4.600369	.0110992	414.48	0.000	4.578615	4.622123
426	4.598657	.0110647	415.61	0.000	4.57697	4.620343
427	4.596944	.0111319	412.95	0.000	4.575126	4.618762
428	4.595232	.0112988	406.70	0.000	4.573087	4.617377
429	4.593519	.0115611	397.33	0.000	4.57086	4.616179
430	4.591807	.0119126	385.46	0.000	4.568458	4.615155
431	4.590094	.0123456	371.80	0.000	4.565897	4.614291
432	4.588382	.0128519	357.02	0.000	4.563192	4.613571
433	4.586669	.0134232	341.70	0.000	4.56036	4.612978
434	4.584957	.0140516	326.29	0.000	4.557416	4.612497
435	4.583244	.0147298	311.15	0.000	4.554374	4.612114
436	4.581532	.0154512	296.52	0.000	4.551248	4.611815
437	4.579819	.01621	282.53	0.000	4.548048	4.61159
438	4.578107	.0170013	269.28	0.000	4.544785	4.611428
439	4.576394	.0178207	256.80	0.000	4.541466	4.611322
440	4.574681	.0186645	245.10	0.000	4.5381	4.611263
441	4.572969	.0195296	234.16	0.000	4.534692	4.611246
442	4.571256	.0204132	223.94	0.000	4.531247	4.611265
443	4.569544	.021313	214.40	0.000	4.527771	4.611317
444	4.567831	.0222271	205.51	0.000	4.524267	4.611396
445	4.566119	.0231538	197.21	0.000	4.520738	4.6115
446	4.564406	.0240917	189.46	0.000	4.517188	4.611625
447	4.562694	.0250394	182.22	0.000	4.513618	4.61177
448	4.560981	.0259959	175.45	0.000	4.51003	4.611932
449	4.559269	.0269602	169.11	0.000	4.506428	4.61211
450	4.557556	.0279317	163.17	0.000	4.502811	4.612301
451	4.555844	.0289094	157.59	0.000	4.499182	4.612505
452	4.624313	.0197784	233.81	0.000	4.585548	4.663078
453	4.622494	.0188918	244.68	0.000	4.585467	4.659521
454	4.620675	.0180275	256.31	0.000	4.585341	4.656008
455	4.618856	.0171891	268.71	0.000	4.585166	4.652546
456	4.617037	.0163805	281.86	0.000	4.584932	4.649142
457	4.615218	.0156063	295.73	0.000	4.58463	4.645806
458	4.613399	.0148718	310.21	0.000	4.584251	4.642547
459	4.61158	.0141833	325.14	0.000	4.583781	4.639379
460	4.609761	.0135478	340.26	0.000	4.583208	4.636314
461	4.607942	.0129731	355.19	0.000	4.582515	4.633369
462	4.606123	.0124675	369.45	0.000	4.581687	4.630559
463	4.604304	.0120399	382.42	0.000	4.580707	4.627902
464	4.602485	.0116986	393.42	0.000	4.579556	4.625414
465	4.600666	.0114515	401.75	0.000	4.578222	4.623111
466	4.598847	.0113048	406.81	0.000	4.57669	4.621004
467	4.597028	.0112623	408.18	0.000	4.574955	4.619102
468	4.59521	.0113253	405.75	0.000	4.573012	4.617407
469	4.593391	.0114919	399.71	0.000	4.570867	4.615914
470	4.591572	.0117578	390.51	0.000	4.568527	4.614617
471	4.589753	.0121165	378.80	0.000	4.566005	4.613501
472	4.587934	.0125601	365.28	0.000	4.563317	4.612551
473	4.586115	.0130798	350.63	0.000	4.560479	4.611751
474	4.584296	.013667	335.43	0.000	4.557509	4.611083
475	4.582477	.0143133	320.15	0.000	4.554423	4.610531
476	4.580658	.0150113	305.15	0.000	4.551236	4.61008
477	4.578839	.0157539	290.65	0.000	4.547962	4.609716
478	4.57702	.0165352	276.80	0.000	4.544612	4.609429
479	4.575201	.01735	263.70	0.000	4.541196	4.609207
480	4.573382	.0181937	251.37	0.000	4.537723	4.609041
481	4.571563	.0190626	239.82	0.000	4.534201	4.608925
482	4.569744	.0199533	229.02	0.000	4.530637	4.608852
483	4.567925	.020863	218.95	0.000	4.527035	4.608816
484	4.566106	.0217894	209.56	0.000	4.5234	4.608813
485	4.564287	.0227304	200.80	0.000	4.519737	4.608838
486	4.562469	.0236842	192.64	0.000	4.516048	4.608889
487	4.56065	.0246495	185.02	0.000	4.512338	4.608962
488	4.558831	.0256248	177.91	0.000	4.508607	4.609054
489	4.557012	.0266091	171.26	0.000	4.504859	4.609165
490	4.555193	.0276015	165.03	0.000	4.501095	4.609291
491	4.553374	.028601	159.20	0.000	4.497317	4.609431
492	4.551555	.029607	153.73	0.000	4.493526	4.609583
493	4.624281	.0203276	227.49	0.000	4.584439	4.664122

494	4.622355	.0194121	238.12	0.000	4.584308	4.660402
495	4.62043	.0185192	249.49	0.000	4.584133	4.656727
496	4.618505	.0176525	261.63	0.000	4.583906	4.653103
497	4.616579	.0168158	274.54	0.000	4.583621	4.649538
498	4.614654	.016014	288.16	0.000	4.583267	4.646041
499	4.612728	.0152526	302.42	0.000	4.582834	4.642623
500	4.610803	.0145378	317.16	0.000	4.58231	4.639297
501	4.608878	.0138769	332.13	0.000	4.581679	4.636076
502	4.606952	.0132779	346.96	0.000	4.580928	4.632977
503	4.605027	.0127496	361.19	0.000	4.580038	4.630016
504	4.603102	.0123012	374.20	0.000	4.578992	4.627211
505	4.601176	.0119414	385.31	0.000	4.577771	4.624581
506	4.599251	.0116787	393.82	0.000	4.576361	4.622141
507	4.597326	.0115196	399.09	0.000	4.574748	4.619903
508	4.5954	.0114684	400.70	0.000	4.572923	4.617878
509	4.593475	.0115266	398.51	0.000	4.570883	4.616066
510	4.591549	.0116925	392.69	0.000	4.568633	4.614466
511	4.589624	.0119617	383.69	0.000	4.56618	4.613069
512	4.587699	.0123274	372.16	0.000	4.563538	4.61186
513	4.585773	.0127812	358.79	0.000	4.560723	4.610824
514	4.583848	.0133143	344.28	0.000	4.557752	4.609944
515	4.581923	.0139175	329.22	0.000	4.554645	4.6092
516	4.579997	.0145821	314.08	0.000	4.551417	4.608578
517	4.578072	.0153001	299.22	0.000	4.548084	4.608059
518	4.576147	.0160643	284.86	0.000	4.544661	4.607632
519	4.574221	.0168685	271.17	0.000	4.541159	4.607283
520	4.572296	.0177072	258.22	0.000	4.53759	4.607001
521	4.57037	.0185758	246.04	0.000	4.533963	4.606778
522	4.568445	.0194702	234.64	0.000	4.530284	4.606606
523	4.56652	.020387	223.99	0.000	4.526562	4.606478
524	4.564594	.0213234	214.06	0.000	4.522801	4.606387
525	4.562669	.0222769	204.82	0.000	4.519007	4.606331
526	4.560744	.0232454	196.20	0.000	4.515184	4.606304
527	4.558818	.024227	188.17	0.000	4.511334	4.606302
528	4.556893	.0252203	180.68	0.000	4.507462	4.606324
529	4.554968	.0262239	173.69	0.000	4.50357	4.606365
530	4.553042	.0272367	167.17	0.000	4.499659	4.606425
531	4.551117	.0282578	161.06	0.000	4.495733	4.606501
532	4.549191	.0292861	155.34	0.000	4.491792	4.606591
533	4.547266	.030321	149.97	0.000	4.487838	4.606694
534	4.624249	.0208946	221.31	0.000	4.583296	4.665201
535	4.622217	.0199496	231.69	0.000	4.583116	4.661317
536	4.620185	.0190275	242.82	0.000	4.582892	4.657478
537	4.618153	.0181318	254.70	0.000	4.582615	4.653691
538	4.616121	.0172665	267.35	0.000	4.58228	4.649963
539	4.61409	.0164365	280.72	0.000	4.581875	4.646305
540	4.612058	.0156474	294.75	0.000	4.581389	4.642726
541	4.610026	.0149057	309.28	0.000	4.580811	4.639241
542	4.607994	.0142187	324.08	0.000	4.580126	4.635862
543	4.605962	.0135949	338.80	0.000	4.579317	4.632608
544	4.603931	.0130432	352.98	0.000	4.578366	4.629495
545	4.601899	.0125732	366.01	0.000	4.577256	4.626542
546	4.599867	.0121943	377.21	0.000	4.575967	4.623768
547	4.597835	.0119152	385.88	0.000	4.574482	4.621189
548	4.595804	.0117431	391.36	0.000	4.572788	4.61882
549	4.593772	.0116825	393.22	0.000	4.570874	4.616669
550	4.59174	.0117354	391.27	0.000	4.568739	4.614741
551	4.589708	.0119002	385.68	0.000	4.566384	4.613032
552	4.587676	.0121722	376.90	0.000	4.563819	4.611534
553	4.585645	.0125447	365.55	0.000	4.561058	4.610232
554	4.583613	.0130088	352.35	0.000	4.558116	4.60911
555	4.581581	.0135553	337.99	0.000	4.555013	4.608149
556	4.579549	.0141745	323.08	0.000	4.551768	4.607331
557	4.577518	.0148575	308.09	0.000	4.548397	4.606638
558	4.575486	.0155958	293.38	0.000	4.544919	4.606053
559	4.573454	.0163819	279.18	0.000	4.541346	4.605562
560	4.571422	.0172093	265.64	0.000	4.537692	4.605152
561	4.56939	.0180724	252.84	0.000	4.533969	4.604812
562	4.567359	.0189662	240.82	0.000	4.530186	4.604532
563	4.565327	.0198866	229.57	0.000	4.52635	4.604304
564	4.563295	.0208302	219.07	0.000	4.522469	4.604121
565	4.561263	.0217938	209.29	0.000	4.518548	4.603978
566	4.559232	.0227749	200.19	0.000	4.514594	4.60387

567	4.5572	.0237714	191.71	0.000	4.510609	4.603791
568	4.555168	.0247814	183.81	0.000	4.506597	4.603739
569	4.553136	.0258034	176.45	0.000	4.502562	4.60371
570	4.551104	.0268359	169.59	0.000	4.498507	4.603702
571	4.549073	.0278778	163.18	0.000	4.494433	4.603712
572	4.547041	.0289281	157.18	0.000	4.490343	4.603739
573	4.545009	.0299859	151.57	0.000	4.486238	4.60378
574	4.542977	.0310504	146.31	0.000	4.48212	4.603835
575	4.624216	.0214781	215.30	0.000	4.58212	4.666313
576	4.622078	.0205031	225.43	0.000	4.581893	4.662264
577	4.61994	.0195512	236.30	0.000	4.58162	4.65826
578	4.617802	.0186259	247.92	0.000	4.581296	4.654308
579	4.615664	.0177314	260.31	0.000	4.580911	4.650417
580	4.613525	.0168726	273.43	0.000	4.580456	4.646595
581	4.611387	.0160553	287.22	0.000	4.579919	4.642855
582	4.609249	.015286	301.53	0.000	4.579289	4.639209
583	4.607111	.0145725	316.15	0.000	4.578549	4.635672
584	4.604973	.0139231	330.74	0.000	4.577684	4.632262
585	4.602834	.0133475	344.85	0.000	4.576674	4.628995
586	4.600696	.0128553	357.88	0.000	4.5755	4.625892
587	4.598558	.0124566	369.17	0.000	4.574143	4.622973
588	4.59642	.0121606	377.98	0.000	4.572586	4.620254
589	4.594282	.0119747	383.66	0.000	4.570812	4.617752
590	4.592143	.0119044	385.75	0.000	4.568811	4.615476
591	4.590005	.0119514	384.06	0.000	4.566581	4.61343
592	4.587867	.0121145	378.71	0.000	4.564123	4.611611
593	4.585729	.0123892	370.14	0.000	4.561446	4.610011
594	4.583591	.0127681	358.99	0.000	4.558566	4.608616
595	4.581452	.0132424	345.97	0.000	4.555498	4.607407
596	4.579314	.0138023	331.78	0.000	4.552262	4.606366
597	4.577176	.0144377	317.03	0.000	4.548879	4.605473
598	4.575038	.0151392	302.20	0.000	4.545366	4.60471
599	4.5729	.015898	287.64	0.000	4.54174	4.604059
600	4.570761	.0167063	273.59	0.000	4.538018	4.603505
601	4.568623	.0175573	260.21	0.000	4.534212	4.603035
602	4.566485	.0184451	247.57	0.000	4.530333	4.602637
603	4.564347	.0193646	235.71	0.000	4.526393	4.602301
604	4.562209	.0203115	224.61	0.000	4.522399	4.602018
605	4.56007	.0212821	214.27	0.000	4.518358	4.601783
606	4.557932	.0222734	204.64	0.000	4.514277	4.601587
607	4.555794	.0232827	195.67	0.000	4.510161	4.601427
608	4.553656	.0243078	187.33	0.000	4.506013	4.601298
609	4.551518	.0253467	179.57	0.000	4.501839	4.601196
610	4.549379	.0263979	172.34	0.000	4.497641	4.601118
611	4.547241	.0274598	165.60	0.000	4.493421	4.601061
612	4.545103	.0285314	159.30	0.000	4.489183	4.601024
613	4.542965	.0296115	153.42	0.000	4.484927	4.601002
614	4.540827	.0306993	147.91	0.000	4.480657	4.600996
615	4.538688	.031794	142.75	0.000	4.476373	4.601003
616	4.624184	.0220767	209.46	0.000	4.580915	4.667454
617	4.62194	.0210711	219.35	0.000	4.580641	4.663238
618	4.619695	.0200889	229.96	0.000	4.580322	4.659069
619	4.617451	.0191336	241.33	0.000	4.579949	4.654952
620	4.615206	.0182094	253.45	0.000	4.579516	4.650896
621	4.612961	.0173214	266.32	0.000	4.579012	4.646911
622	4.610717	.0164753	279.86	0.000	4.578426	4.643008
623	4.608472	.015678	293.95	0.000	4.577744	4.6392
624	4.606227	.0149372	308.37	0.000	4.576951	4.635504
625	4.603983	.0142619	322.82	0.000	4.57603	4.631936
626	4.601738	.0136617	336.83	0.000	4.574962	4.628515
627	4.599494	.0131469	349.85	0.000	4.573726	4.625261
628	4.597249	.0127278	361.20	0.000	4.572303	4.622195
629	4.595004	.0124142	370.14	0.000	4.570673	4.619336
630	4.59276	.0122142	376.02	0.000	4.56882	4.616699
631	4.590515	.0121334	378.34	0.000	4.566734	4.614296
632	4.58827	.0121741	376.89	0.000	4.56441	4.612131
633	4.586026	.0123353	371.78	0.000	4.561849	4.610203
634	4.583781	.0126122	363.44	0.000	4.559062	4.608501
635	4.581537	.0129975	352.49	0.000	4.556062	4.607011
636	4.579292	.0134818	339.66	0.000	4.552868	4.605716
637	4.577047	.014055	325.65	0.000	4.5495	4.604595
638	4.574803	.0147066	311.07	0.000	4.545978	4.603627
639	4.572558	.0154268	296.40	0.000	4.542322	4.602794

640	4.570314	.0162063	282.01	0.000	4.53855	4.602077
641	4.568069	.0170371	268.12	0.000	4.534677	4.601461
642	4.565824	.017912	254.90	0.000	4.530717	4.600931
643	4.56358	.0188248	242.42	0.000	4.526684	4.600476
644	4.561335	.0197704	230.72	0.000	4.522586	4.600084
645	4.55909	.0207442	219.78	0.000	4.518433	4.599748
646	4.556846	.0217424	209.58	0.000	4.514232	4.59946
647	4.554601	.0227618	200.10	0.000	4.509989	4.599213
648	4.552357	.0237997	191.28	0.000	4.50571	4.599003
649	4.550112	.0248538	183.07	0.000	4.501399	4.598825
650	4.547867	.0259222	175.44	0.000	4.497061	4.598674
651	4.545623	.0270003	168.34	0.000	4.492698	4.598548
652	4.543378	.0280949	161.72	0.000	4.488313	4.598443
653	4.541133	.0291966	155.54	0.000	4.483909	4.598358
654	4.538889	.0303071	149.76	0.000	4.479488	4.59829
655	4.536644	.0314255	144.36	0.000	4.475051	4.598237
656	4.5344	.0325508	139.30	0.000	4.470601	4.598198
657	4.624152	.0226893	203.80	0.000	4.579682	4.668622
658	4.621801	.0216527	213.45	0.000	4.579363	4.66424
659	4.61945	.0206397	223.81	0.000	4.578997	4.659903
660	4.617099	.0196538	234.92	0.000	4.578578	4.65562
661	4.614748	.0186995	246.78	0.000	4.578098	4.651398
662	4.612397	.0177817	259.39	0.000	4.577546	4.647249
663	4.610046	.0169064	272.68	0.000	4.57691	4.643182
664	4.607695	.0160806	286.54	0.000	4.576178	4.639212
665	4.605344	.0153123	300.76	0.000	4.575332	4.635356
666	4.602993	.0146105	315.05	0.000	4.574357	4.631629
667	4.600642	.0139853	328.96	0.000	4.573231	4.628053
668	4.598291	.0134472	341.95	0.000	4.571935	4.624647
669	4.59594	.0130073	353.34	0.000	4.570446	4.621434
670	4.593589	.0126756	362.39	0.000	4.568745	4.618433
671	4.591238	.0124609	368.45	0.000	4.566815	4.615661
672	4.588887	.0123692	370.99	0.000	4.564644	4.61313
673	4.586536	.0124033	369.78	0.000	4.562226	4.610846
674	4.584185	.012562	364.92	0.000	4.559564	4.608806
675	4.581834	.0128409	356.81	0.000	4.556666	4.607001
676	4.579483	.0132323	346.08	0.000	4.553548	4.605417
677	4.577132	.0137266	333.45	0.000	4.550228	4.604035
678	4.574781	.0143131	319.62	0.000	4.546727	4.602834
679	4.572429	.014981	305.21	0.000	4.543067	4.601792
680	4.570078	.01572	290.72	0.000	4.539268	4.600889
681	4.567727	.0165205	276.49	0.000	4.535348	4.600107
682	4.565376	.0173739	262.77	0.000	4.531324	4.599429
683	4.563025	.018273	249.71	0.000	4.527211	4.59884
684	4.560674	.0192112	237.40	0.000	4.523021	4.598328
685	4.558323	.0201832	225.85	0.000	4.518765	4.597882
686	4.555972	.0211842	215.06	0.000	4.514452	4.597492
687	4.553621	.0222104	205.02	0.000	4.51009	4.597153
688	4.55127	.0232583	195.68	0.000	4.505685	4.596856
689	4.548919	.0243253	187.00	0.000	4.501242	4.596596
690	4.546568	.0254089	178.94	0.000	4.496768	4.596369
691	4.544217	.0265071	171.43	0.000	4.492264	4.59617
692	4.541866	.0276181	164.45	0.000	4.487736	4.595996
693	4.539515	.0287404	157.95	0.000	4.483185	4.595845
694	4.537164	.0298728	151.88	0.000	4.478614	4.595714
695	4.534813	.0310142	146.22	0.000	4.474026	4.5956
696	4.532462	.0321635	140.92	0.000	4.469422	4.595501
697	4.530111	.0333201	135.96	0.000	4.464805	4.595417
698	4.62412	.0233147	198.34	0.000	4.578424	4.669816
699	4.621663	.0222467	207.75	0.000	4.57806	4.665265
700	4.619205	.0212024	217.86	0.000	4.577649	4.660761
701	4.616748	.0201857	228.71	0.000	4.577185	4.656311
702	4.61429	.0192007	240.32	0.000	4.576658	4.651923
703	4.611833	.0182528	252.66	0.000	4.576058	4.647608
704	4.609375	.0173479	265.70	0.000	4.575374	4.643377
705	4.606918	.0164932	279.32	0.000	4.574592	4.639244
706	4.604461	.0156969	293.34	0.000	4.573695	4.635226
707	4.602003	.0149682	307.45	0.000	4.572666	4.63134
708	4.599546	.0143175	321.25	0.000	4.571484	4.627607
709	4.597088	.0137558	334.19	0.000	4.570127	4.624049
710	4.594631	.0132946	345.60	0.000	4.568574	4.620688
711	4.592173	.0129444	354.76	0.000	4.566803	4.617544
712	4.589716	.0127145	360.98	0.000	4.564796	4.614636

713	4.587258	.0126115	363.74	0.000	4.56254	4.611976
714	4.584801	.0126384	362.77	0.000	4.56003	4.609572
715	4.582343	.0127945	358.15	0.000	4.557267	4.60742
716	4.579886	.0130751	350.28	0.000	4.554259	4.605513
717	4.577429	.0134724	339.76	0.000	4.551023	4.603834
718	4.574971	.0139766	327.33	0.000	4.547578	4.602365
719	4.572514	.0145764	313.69	0.000	4.543944	4.601083
720	4.570056	.0152607	299.47	0.000	4.540146	4.599967
721	4.567599	.0160185	285.14	0.000	4.536203	4.598994
722	4.565141	.0168401	271.09	0.000	4.532135	4.598147
723	4.562684	.0177165	257.54	0.000	4.52796	4.597407
724	4.560226	.0186399	244.65	0.000	4.523693	4.59676
725	4.557769	.0196038	232.49	0.000	4.519346	4.596192
726	4.555311	.0206025	221.10	0.000	4.514931	4.595692
727	4.552854	.0216311	210.48	0.000	4.510458	4.59525
728	4.550397	.0226856	200.59	0.000	4.505934	4.59486
729	4.547939	.0237625	191.39	0.000	4.501365	4.594513
730	4.545482	.024859	182.85	0.000	4.496759	4.594204
731	4.543024	.0259724	174.92	0.000	4.492119	4.593929
732	4.540567	.0271009	167.54	0.000	4.48745	4.593683
733	4.538109	.0282424	160.68	0.000	4.482755	4.593463
734	4.535652	.0293956	154.30	0.000	4.478037	4.593266
735	4.533194	.0305591	148.34	0.000	4.4733	4.593089
736	4.530737	.0317318	142.78	0.000	4.468544	4.59293
737	4.528279	.0329127	137.58	0.000	4.463772	4.592787
738	4.525822	.0341009	132.72	0.000	4.458986	4.592658
739	4.624088	.023952	193.06	0.000	4.577143	4.671033
740	4.621524	.0228521	202.24	0.000	4.576735	4.666314
741	4.61896	.0217762	212.11	0.000	4.57628	4.661641
742	4.616397	.0207282	222.71	0.000	4.57577	4.657023
743	4.613833	.0197123	234.06	0.000	4.575197	4.652468
744	4.611269	.0187339	246.15	0.000	4.574551	4.647986
745	4.608705	.017799	258.93	0.000	4.573819	4.64359
746	4.606141	.016915	272.31	0.000	4.572988	4.639294
747	4.603577	.0160903	286.11	0.000	4.572041	4.635114
748	4.601013	.0153343	300.05	0.000	4.570959	4.631068
749	4.598449	.0146578	313.72	0.000	4.569721	4.627178
750	4.595886	.0140721	326.59	0.000	4.568305	4.623466
751	4.593322	.0135891	338.01	0.000	4.566687	4.619956
752	4.590758	.0132201	347.26	0.000	4.564847	4.616669
753	4.588194	.0129746	353.63	0.000	4.562764	4.613624
754	4.58563	.0128598	356.59	0.000	4.560425	4.610835
755	4.583066	.0128793	355.85	0.000	4.557823	4.608309
756	4.580502	.0130324	351.47	0.000	4.554959	4.606045
757	4.577938	.0133144	343.83	0.000	4.551843	4.604034
758	4.575375	.0137175	333.54	0.000	4.548489	4.60226
759	4.572811	.0142314	321.32	0.000	4.544918	4.600704
760	4.570247	.0148445	307.87	0.000	4.541152	4.599342
761	4.567683	.0155452	293.83	0.000	4.537215	4.598151
762	4.565119	.0163221	279.69	0.000	4.533128	4.59711
763	4.562555	.0171649	265.81	0.000	4.528913	4.596198
764	4.559991	.0180644	252.43	0.000	4.524586	4.595397
765	4.557427	.0190125	239.71	0.000	4.520164	4.594691
766	4.554864	.0200024	227.72	0.000	4.515566	4.594067
767	4.5523	.021028	216.49	0.000	4.511085	4.593514
768	4.549736	.0220846	206.01	0.000	4.506451	4.593021
769	4.547172	.0231677	196.27	0.000	4.501764	4.59258
770	4.544608	.0242739	187.22	0.000	4.497032	4.592184
771	4.542044	.0254001	178.82	0.000	4.492261	4.591828
772	4.53948	.0265439	171.02	0.000	4.487455	4.591505
773	4.536916	.027703	163.77	0.000	4.48262	4.591213
774	4.534353	.0288755	157.03	0.000	4.477758	4.590948
775	4.531789	.03006	150.76	0.000	4.472872	4.590705
776	4.529225	.031255	144.91	0.000	4.467966	4.590483
777	4.526661	.0324594	139.46	0.000	4.463042	4.59028
778	4.524097	.0336721	134.36	0.000	4.458101	4.590093
779	4.521533	.0348924	129.59	0.000	4.453145	4.589921
780	4.624056	.0246002	187.97	0.000	4.575841	4.672271
781	4.621386	.0234681	196.92	0.000	4.575389	4.667382
782	4.618715	.0223603	206.56	0.000	4.57489	4.662541
783	4.616045	.0212806	216.91	0.000	4.574336	4.657754
784	4.613375	.0202334	228.01	0.000	4.573718	4.653032
785	4.610705	.0192241	239.84	0.000	4.573026	4.648383

786	4.608034	.018259	252.37	0.000	4.572247	4.643821
787	4.605364	.0173454	265.51	0.000	4.571368	4.63936
788	4.602694	.0164919	279.09	0.000	4.57037	4.635017
789	4.600023	.0157083	292.84	0.000	4.569236	4.630811
790	4.597353	.0150056	306.38	0.000	4.567943	4.626764
791	4.594683	.0143956	319.17	0.000	4.566468	4.622898
792	4.592013	.0138905	330.59	0.000	4.564788	4.619238
793	4.589342	.0135022	339.90	0.000	4.562879	4.615806
794	4.586672	.0132408	346.41	0.000	4.560721	4.612623
795	4.584002	.0131139	349.55	0.000	4.558299	4.609705
796	4.581331	.0131256	349.04	0.000	4.555606	4.607057
797	4.578661	.0132753	344.90	0.000	4.552642	4.60468
798	4.575991	.0135586	337.50	0.000	4.549416	4.602565
799	4.573321	.0139673	327.43	0.000	4.545945	4.600696
800	4.57065	.0144909	315.42	0.000	4.542249	4.599052
801	4.56798	.0151173	302.17	0.000	4.538351	4.597609
802	4.56531	.0158343	288.32	0.000	4.534275	4.596344
803	4.562639	.0166304	274.36	0.000	4.530044	4.595234
804	4.559969	.0174946	260.65	0.000	4.52568	4.594258
805	4.557299	.0184173	247.45	0.000	4.521201	4.593396
806	4.554628	.0193903	234.89	0.000	4.516624	4.592633
807	4.551958	.0204064	223.07	0.000	4.511962	4.591954
808	4.549288	.0214594	212.00	0.000	4.507228	4.591347
809	4.546618	.0225441	201.68	0.000	4.502432	4.590803
810	4.543947	.0236562	192.08	0.000	4.497582	4.590313
811	4.541277	.024792	183.18	0.000	4.492686	4.589868
812	4.538607	.0259484	174.91	0.000	4.487749	4.589465
813	4.535936	.0271228	167.24	0.000	4.482777	4.589096
814	4.533266	.0283128	160.11	0.000	4.477774	4.588758
815	4.530596	.0295167	153.49	0.000	4.472744	4.588448
816	4.527926	.0307328	147.33	0.000	4.46769	4.588161
817	4.525255	.0319597	141.59	0.000	4.462615	4.587895
818	4.522585	.0331962	136.24	0.000	4.457522	4.587648
819	4.519915	.0344412	131.24	0.000	4.452411	4.587418
820	4.517244	.035694	126.55	0.000	4.447285	4.587203
821	4.624024	.0252584	183.07	0.000	4.574518	4.67353
822	4.621247	.0240938	191.80	0.000	4.574024	4.66847
823	4.618471	.0229538	201.21	0.000	4.573482	4.663459
824	4.615694	.0218421	211.32	0.000	4.572884	4.658504
825	4.612917	.0207633	222.17	0.000	4.572222	4.653612
826	4.61014	.0197229	233.75	0.000	4.571484	4.648797
827	4.607364	.0187272	246.03	0.000	4.570659	4.644068
828	4.604587	.0177837	258.92	0.000	4.569732	4.639442
829	4.60181	.0169012	272.28	0.000	4.568685	4.634936
830	4.599034	.0160897	285.84	0.000	4.567498	4.630569
831	4.596257	.0153605	299.23	0.000	4.566151	4.626363
832	4.59348	.0147258	311.93	0.000	4.564618	4.622342
833	4.590703	.0141983	323.33	0.000	4.562875	4.618532
834	4.587927	.0137903	332.69	0.000	4.560898	4.614955
835	4.58515	.0135126	339.32	0.000	4.558666	4.611634
836	4.582373	.0133734	342.65	0.000	4.556162	4.608585
837	4.579597	.013377	342.35	0.000	4.553378	4.605815
838	4.57682	.0135231	338.44	0.000	4.550315	4.603325
839	4.574043	.0138075	331.27	0.000	4.546981	4.601105
840	4.571266	.0142216	321.43	0.000	4.543393	4.59914
841	4.56849	.01475547	309.63	0.000	4.539571	4.597408
842	4.565713	.0153943	296.58	0.000	4.535541	4.595885
843	4.562936	.0161279	282.92	0.000	4.531326	4.594546
844	4.56016	.0169431	269.15	0.000	4.526952	4.593368
845	4.557383	.0178288	255.62	0.000	4.522439	4.592327
846	4.554606	.0187751	242.59	0.000	4.517808	4.591405
847	4.55183	.0197732	230.20	0.000	4.513075	4.590584
848	4.549053	.0208157	218.54	0.000	4.508255	4.589851
849	4.546276	.0218962	207.63	0.000	4.50336	4.589192
850	4.543499	.0230094	197.46	0.000	4.498402	4.588597
851	4.540723	.0241507	188.02	0.000	4.493388	4.588057
852	4.537946	.0253164	179.25	0.000	4.488327	4.587565
853	4.535169	.0265033	171.12	0.000	4.483224	4.587115
854	4.532393	.0277086	163.57	0.000	4.478085	4.5867
855	4.529616	.02893	156.57	0.000	4.472914	4.586318
856	4.526839	.0301655	150.07	0.000	4.467716	4.585962
857	4.524062	.0314136	144.02	0.000	4.462493	4.585632
858	4.521286	.0326727	138.38	0.000	4.457248	4.585323

859	4.518509	.0339417	133.13	0.000	4.451985	4.585033
860	4.515732	.0352194	128.22	0.000	4.446704	4.584761
861	4.512956	.036505	123.63	0.000	4.441407	4.584504
862	4.623992	.025926	178.35	0.000	4.573178	4.674806
863	4.621109	.0247286	186.87	0.000	4.572642	4.669576
864	4.618226	.023556	196.05	0.000	4.572057	4.664395
865	4.615343	.022412	205.93	0.000	4.571416	4.659269
866	4.612459	.0213014	216.53	0.000	4.570709	4.654209
867	4.609576	.0202295	227.86	0.000	4.569927	4.649225
868	4.606693	.0192029	239.90	0.000	4.569056	4.64433
869	4.60381	.0182293	252.55	0.000	4.568081	4.639539
870	4.600927	.0173175	265.68	0.000	4.566985	4.634869
871	4.598044	.0164779	279.04	0.000	4.565748	4.63034
872	4.595161	.0157219	292.28	0.000	4.564346	4.625975
873	4.592277	.0150623	304.89	0.000	4.562756	4.621799
874	4.589394	.0145121	316.25	0.000	4.560951	4.617838
875	4.586511	.0140842	325.65	0.000	4.558907	4.614116
876	4.583628	.0137899	332.39	0.000	4.5566	4.610656
877	4.580745	.013638	335.88	0.000	4.554015	4.607475
878	4.577862	.0136331	335.79	0.000	4.551141	4.604582
879	4.574979	.0137755	332.11	0.000	4.547979	4.601978
880	4.572096	.0140607	325.17	0.000	4.544537	4.599654
881	4.569212	.0144801	315.55	0.000	4.540832	4.597593
882	4.566329	.0150227	303.96	0.000	4.536885	4.595773
883	4.563446	.0156756	291.12	0.000	4.532723	4.59417
884	4.560563	.0164256	277.65	0.000	4.52837	4.592757
885	4.55768	.0172601	264.06	0.000	4.523851	4.591509
886	4.554797	.0181675	250.71	0.000	4.519189	4.590404
887	4.551914	.0191374	237.85	0.000	4.514405	4.589422
888	4.549031	.0201607	225.64	0.000	4.509516	4.588545
889	4.546147	.0212298	214.14	0.000	4.504538	4.587757
890	4.543264	.0223381	203.39	0.000	4.499482	4.587046
891	4.540381	.02348	193.37	0.000	4.494361	4.586401
892	4.537498	.0246509	184.07	0.000	4.489183	4.585813
893	4.534615	.0258468	175.44	0.000	4.483956	4.585274
894	4.531732	.0270644	167.44	0.000	4.478687	4.584777
895	4.528849	.0283009	160.02	0.000	4.47338	4.584317
896	4.525966	.0295539	153.14	0.000	4.468041	4.58389
897	4.523082	.0308215	146.75	0.000	4.462673	4.583491
898	4.520199	.0321018	140.81	0.000	4.457281	4.583118
899	4.517316	.0333935	135.28	0.000	4.451866	4.582766
900	4.514433	.0346953	130.12	0.000	4.446432	4.582434
901	4.51155	.036006	125.30	0.000	4.440979	4.58212
902	4.508667	.0373247	120.80	0.000	4.435512	4.581822
903	4.62396	.0266022	173.82	0.000	4.57182	4.676099
904	4.62097	.0253717	182.13	0.000	4.571243	4.670698
905	4.617981	.0241663	191.09	0.000	4.570616	4.665346
906	4.614991	.0229898	200.74	0.000	4.569932	4.66005
907	4.612002	.021847	211.10	0.000	4.569182	4.654821
908	4.609012	.0207435	222.19	0.000	4.568356	4.649669
909	4.606023	.0196858	233.98	0.000	4.567439	4.644606
910	4.603033	.0186817	246.39	0.000	4.566417	4.639649
911	4.600043	.0177404	259.30	0.000	4.565273	4.634814
912	4.597054	.0168724	272.46	0.000	4.563985	4.630123
913	4.594064	.0160895	285.53	0.000	4.56253	4.625599
914	4.591075	.0154046	298.03	0.000	4.560882	4.621267
915	4.588085	.0148315	309.35	0.000	4.559016	4.617154
916	4.585096	.0143834	318.78	0.000	4.556905	4.613287
917	4.582106	.0140723	325.61	0.000	4.554525	4.609687
918	4.579117	.0139074	329.26	0.000	4.551859	4.606375
919	4.576127	.0138939	329.36	0.000	4.548896	4.603359
920	4.573138	.0140322	325.90	0.000	4.545635	4.60064
921	4.570148	.014318	319.19	0.000	4.542085	4.598211
922	4.567158	.0147427	309.79	0.000	4.538263	4.596054
923	4.564169	.0152946	298.42	0.000	4.534192	4.594146
924	4.561179	.0159607	285.78	0.000	4.529897	4.592462
925	4.55819	.0167272	272.50	0.000	4.525405	4.590975
926	4.5552	.0175811	259.10	0.000	4.520742	4.589659
927	4.552211	.0185102	245.93	0.000	4.515931	4.58849
928	4.549221	.0195039	233.25	0.000	4.510994	4.587448
929	4.546232	.0205527	221.20	0.000	4.505949	4.586514
930	4.543242	.0216486	209.86	0.000	4.500812	4.585673
931	4.540253	.0227849	199.27	0.000	4.495595	4.58491

932	4.537263	.0239557	189.40	0.000	4.490311	4.584215
933	4.534273	.0251564	180.24	0.000	4.484968	4.583579
934	4.531284	.0263827	171.75	0.000	4.479575	4.582993
935	4.528294	.0276313	163.88	0.000	4.474138	4.582451
936	4.525305	.0288993	156.59	0.000	4.468663	4.581946
937	4.522315	.0301843	149.82	0.000	4.463155	4.581475
938	4.519326	.0314841	143.54	0.000	4.457618	4.581033
939	4.516336	.0327971	137.71	0.000	4.452055	4.580617
940	4.513347	.0341216	132.27	0.000	4.446469	4.580224
941	4.510357	.0354564	127.21	0.000	4.440864	4.57985
942	4.507367	.0368004	122.48	0.000	4.43524	4.579495
943	4.504378	.0381526	118.06	0.000	4.4296	4.579156
944	4.623928	.0272864	169.46	0.000	4.570447	4.677408
945	4.620832	.0260226	177.57	0.000	4.569829	4.671835
946	4.617736	.024784	186.32	0.000	4.56916	4.666312
947	4.61464	.0235748	195.74	0.000	4.568434	4.660846
948	4.611544	.0223996	205.88	0.000	4.567641	4.655446
949	4.608448	.0212642	216.72	0.000	4.566771	4.650125
950	4.605352	.0201752	228.27	0.000	4.565809	4.644895
951	4.602256	.0191405	240.45	0.000	4.564741	4.639771
952	4.59916	.0181695	253.13	0.000	4.563548	4.634772
953	4.596064	.0172728	266.09	0.000	4.56221	4.629918
954	4.592968	.0164627	278.99	0.000	4.560702	4.625234
955	4.589872	.0157524	291.38	0.000	4.558998	4.620746
956	4.586776	.0151561	302.64	0.000	4.557071	4.616482
957	4.58368	.0146876	312.08	0.000	4.554893	4.612467
958	4.580584	.0143594	319.00	0.000	4.55244	4.608728
959	4.577488	.0141813	322.78	0.000	4.549693	4.605283
960	4.574392	.0141589	323.07	0.000	4.546641	4.602143
961	4.571296	.014293	319.83	0.000	4.543283	4.59931
962	4.5682	.0145793	313.34	0.000	4.539626	4.596775
963	4.565104	.015009	304.16	0.000	4.535687	4.594521
964	4.562008	.0155703	292.99	0.000	4.531491	4.592526
965	4.558912	.0162495	280.56	0.000	4.527064	4.590761
966	4.555817	.0170326	267.48	0.000	4.522433	4.5892
967	4.552721	.0179059	254.26	0.000	4.517626	4.587815
968	4.549625	.0188569	241.27	0.000	4.512666	4.586583
969	4.546529	.0198744	228.76	0.000	4.507575	4.585482
970	4.543433	.0209488	216.88	0.000	4.502374	4.584492
971	4.540337	.0220718	205.71	0.000	4.497077	4.583597
972	4.537241	.0232362	195.27	0.000	4.491699	4.582783
973	4.534145	.0244363	185.55	0.000	4.486251	4.582039
974	4.531049	.0256669	176.53	0.000	4.480743	4.581355
975	4.527953	.0269239	168.18	0.000	4.475183	4.580723
976	4.524857	.0282038	160.43	0.000	4.469578	4.580135
977	4.521761	.0295035	153.26	0.000	4.463935	4.579587
978	4.518665	.0308207	146.61	0.000	4.458257	4.579072
979	4.515569	.0321531	140.44	0.000	4.45255	4.578588
980	4.512473	.0334989	134.71	0.000	4.446816	4.57813
981	4.509377	.0348565	129.37	0.000	4.44106	4.577695
982	4.506281	.0362247	124.40	0.000	4.435282	4.57728
983	4.503185	.0376023	119.76	0.000	4.429486	4.576884
984	4.500089	.0389883	115.42	0.000	4.423674	4.576505
985	4.623896	.027978	165.27	0.000	4.56906	4.678732
986	4.620693	.0266805	173.19	0.000	4.5684	4.672986
987	4.617491	.0254087	181.73	0.000	4.567691	4.667291
988	4.614289	.0241665	190.94	0.000	4.566923	4.661654
989	4.611086	.0229588	200.84	0.000	4.566088	4.656085
990	4.607884	.0217912	211.46	0.000	4.565174	4.650594
991	4.604681	.0206707	222.76	0.000	4.564168	4.645195
992	4.601479	.0196052	234.71	0.000	4.563054	4.639904
993	4.598277	.0186042	247.16	0.000	4.561813	4.63474
994	4.595074	.0176788	259.92	0.000	4.560424	4.629724
995	4.591872	.0168412	272.66	0.000	4.558864	4.62488
996	4.588669	.0161054	284.92	0.000	4.557104	4.620235
997	4.585467	.0154856	296.11	0.000	4.555116	4.615818
998	4.582265	.0149965	305.56	0.000	4.552872	4.611657
999	4.579062	.014651	312.54	0.000	4.550347	4.607778
1000	4.57586	.0144595	316.46	0.000	4.54752	4.6042
1001	4.572658	.014428	316.93	0.000	4.544379	4.600936
1002	4.569455	.0145577	313.89	0.000	4.540923	4.597988
1003	4.566253	.0148443	307.61	0.000	4.537159	4.595347
1004	4.56305	.0152789	298.65	0.000	4.533104	4.592997

1005	4.559848	.0158495	287.70	0.000	4.528784	4.590912
1006	4.556646	.0165418	275.46	0.000	4.524224	4.589067
1007	4.553443	.0173415	262.58	0.000	4.519455	4.587432
1008	4.550241	.0182343	249.54	0.000	4.514502	4.585979
1009	4.547038	.0192072	236.74	0.000	4.509393	4.584684
1010	4.543836	.0202488	224.40	0.000	4.504149	4.583523
1011	4.540634	.0213489	212.69	0.000	4.498791	4.582477
1012	4.537431	.0224991	201.67	0.000	4.493334	4.581529
1013	4.534229	.0236919	191.38	0.000	4.487794	4.580664
1014	4.531027	.0249213	181.81	0.000	4.482182	4.579871
1015	4.527824	.0261821	172.94	0.000	4.476508	4.57914
1016	4.524622	.02747	164.71	0.000	4.470782	4.578462
1017	4.521419	.0287814	157.10	0.000	4.465009	4.57783
1018	4.518217	.0301131	150.04	0.000	4.459196	4.577238
1019	4.515015	.0314627	143.50	0.000	4.453349	4.57668
1020	4.511812	.0328279	137.44	0.000	4.447471	4.576154
1021	4.50861	.0342068	131.80	0.000	4.441566	4.575654
1022	4.505407	.0355979	126.56	0.000	4.435637	4.575178
1023	4.502205	.0369997	121.68	0.000	4.429687	4.574723
1024	4.499003	.0384111	117.13	0.000	4.423718	4.574287
1025	4.4958	.0398311	112.87	0.000	4.417733	4.573868
1026	4.623864	.0286764	161.24	0.000	4.567659	4.680068
1027	4.620555	.0273452	168.97	0.000	4.566959	4.67415
1028	4.617246	.0260398	177.31	0.000	4.566209	4.668283
1029	4.613937	.0247644	186.31	0.000	4.5654	4.662475
1030	4.610628	.0235239	196.00	0.000	4.564522	4.656734
1031	4.60732	.0223241	206.38	0.000	4.563565	4.651074
1032	4.604011	.0211718	217.46	0.000	4.562515	4.645507
1033	4.600702	.0200754	229.17	0.000	4.561355	4.640049
1034	4.597393	.0190443	241.41	0.000	4.560067	4.634719
1035	4.594084	.0180899	253.96	0.000	4.558629	4.62954
1036	4.590776	.0172248	266.52	0.000	4.557016	4.624535
1037	4.587467	.0164631	278.65	0.000	4.5552	4.619734
1038	4.584158	.0158198	289.77	0.000	4.553152	4.615164
1039	4.580849	.0153099	299.21	0.000	4.550842	4.610856
1040	4.57754	.0149469	306.25	0.000	4.548245	4.606836
1041	4.574232	.0147417	310.29	0.000	4.545338	4.603125
1042	4.570923	.014701	310.93	0.000	4.542109	4.599736
1043	4.567614	.014826	308.08	0.000	4.538555	4.596672
1044	4.564305	.0151128	302.02	0.000	4.534685	4.593926
1045	4.560996	.0155523	293.27	0.000	4.530515	4.591478
1046	4.557688	.016132	282.52	0.000	4.526069	4.589306
1047	4.554379	.0168375	270.49	0.000	4.521378	4.58738
1048	4.55107	.0176537	257.80	0.000	4.516469	4.585671
1049	4.547761	.0185661	244.95	0.000	4.511372	4.58415
1050	4.544452	.0195611	232.32	0.000	4.506113	4.582791
1051	4.541144	.0206268	220.16	0.000	4.500716	4.581571
1052	4.537835	.0217528	208.61	0.000	4.4952	4.580469
1053	4.534526	.0229302	197.75	0.000	4.489584	4.579468
1054	4.531217	.0241516	187.62	0.000	4.483881	4.578553
1055	4.527908	.0254105	178.19	0.000	4.478105	4.577712
1056	4.5246	.0267017	169.45	0.000	4.472265	4.576934
1057	4.521291	.0280208	161.36	0.000	4.466371	4.57621
1058	4.517982	.0293638	153.86	0.000	4.46043	4.575534
1059	4.514673	.0307278	146.92	0.000	4.454448	4.574899
1060	4.511364	.03211	140.50	0.000	4.44843	4.574299
1061	4.508056	.0335082	134.54	0.000	4.442381	4.57373
1062	4.504747	.0349205	129.00	0.000	4.436304	4.57319
1063	4.501438	.0363452	123.85	0.000	4.430203	4.572673
1064	4.498129	.0377809	119.06	0.000	4.42408	4.572178
1065	4.49482	.0392264	114.59	0.000	4.417938	4.571703
1066	4.491512	.0406807	110.41	0.000	4.411779	4.571244
1067	4.623832	.0293812	157.37	0.000	4.566245	4.681418
1068	4.620416	.028016	164.92	0.000	4.565506	4.675327
1069	4.617001	.0266769	173.07	0.000	4.564715	4.669287
1070	4.613586	.0253682	181.87	0.000	4.563865	4.663307
1071	4.610171	.0240947	191.34	0.000	4.562946	4.657395
1072	4.606755	.0228624	201.50	0.000	4.561946	4.651565
1073	4.60334	.0216783	212.35	0.000	4.560852	4.645829
1074	4.599925	.0205506	223.83	0.000	4.559646	4.640203
1075	4.59651	.0194893	235.85	0.000	4.558311	4.634708
1076	4.593095	.0185057	248.20	0.000	4.556824	4.629365
1077	4.589679	.0176129	260.59	0.000	4.555159	4.6242

1078	4.586264	.0168253	272.58	0.000	4.553287	4.619241
1079	4.582849	.0161583	283.62	0.000	4.551179	4.614519
1080	4.579434	.0156274	293.04	0.000	4.548805	4.610063
1081	4.576018	.0152467	300.13	0.000	4.546136	4.605901
1082	4.572603	.0150277	304.28	0.000	4.543149	4.602057
1083	4.569188	.0149775	305.07	0.000	4.539833	4.598543
1084	4.565773	.0150978	302.41	0.000	4.536182	4.595364
1085	4.562358	.0153846	296.55	0.000	4.532204	4.592511
1086	4.558942	.0158288	288.02	0.000	4.527918	4.589966
1087	4.555527	.0164177	277.48	0.000	4.523349	4.587705
1088	4.552112	.0171363	265.64	0.000	4.518525	4.585698
1089	4.548697	.0179691	253.14	0.000	4.513478	4.583916
1090	4.545281	.0189011	240.48	0.000	4.508236	4.582327
1091	4.541866	.0199182	228.03	0.000	4.502827	4.580905
1092	4.538451	.0210081	216.03	0.000	4.497276	4.579626
1093	4.535036	.0221601	204.65	0.000	4.491603	4.578469
1094	4.531621	.0233651	193.95	0.000	4.485826	4.577415
1095	4.528205	.0246151	183.96	0.000	4.479961	4.57645
1096	4.52479	.0259038	174.68	0.000	4.47402	4.575561
1097	4.521375	.0272256	166.07	0.000	4.468014	4.574736
1098	4.51796	.0285759	158.10	0.000	4.461952	4.573967
1099	4.514544	.0299509	150.73	0.000	4.455842	4.573247
1100	4.511129	.0313473	143.91	0.000	4.44969	4.572569
1101	4.507714	.0327624	137.59	0.000	4.443501	4.571927
1102	4.504299	.0341938	131.73	0.000	4.43728	4.571317
1103	4.500884	.0356396	126.29	0.000	4.431031	4.570736
1104	4.497468	.0370982	121.23	0.000	4.424757	4.570179
1105	4.494053	.038568	116.52	0.000	4.418461	4.569645
1106	4.490638	.0400478	112.13	0.000	4.412146	4.56913
1107	4.487223	.0415366	108.03	0.000	4.405812	4.568633
1108	4.483799	.0300919	153.66	0.000	4.56482	4.682779
1109	4.620278	.0286925	161.03	0.000	4.564042	4.676514
1110	4.616756	.0273196	168.99	0.000	4.563211	4.670302
1111	4.613235	.0259773	177.59	0.000	4.56232	4.664149
1112	4.609713	.0246707	186.85	0.000	4.561359	4.658067
1113	4.606191	.0234058	196.80	0.000	4.560317	4.652066
1114	4.60267	.0221896	207.42	0.000	4.559179	4.64616
1115	4.599148	.0210307	218.69	0.000	4.557929	4.640367
1116	4.595626	.019939	230.48	0.000	4.556547	4.634706
1117	4.592105	.0189261	242.63	0.000	4.55501	4.629199
1118	4.588583	.0180054	254.84	0.000	4.553293	4.623873
1119	4.585061	.0171917	266.70	0.000	4.551366	4.618757
1120	4.58154	.0165009	277.65	0.000	4.549199	4.613881
1121	4.578018	.0159488	287.05	0.000	4.546759	4.609277
1122	4.574497	.0155503	294.18	0.000	4.544019	4.604974
1123	4.570975	.0153173	298.42	0.000	4.540953	4.600996
1124	4.567453	.0152575	299.36	0.000	4.537549	4.597357
1125	4.563932	.0153729	296.88	0.000	4.533801	4.594062
1126	4.56041	.0156596	291.22	0.000	4.529718	4.591102
1127	4.556888	.0161085	282.89	0.000	4.525316	4.58846
1128	4.553367	.0167064	272.55	0.000	4.520623	4.586111
1129	4.549845	.0174381	260.91	0.000	4.515667	4.584023
1130	4.546323	.0182875	248.60	0.000	4.51048	4.582166
1131	4.542802	.0192391	236.12	0.000	4.505094	4.58051
1132	4.53928	.0202784	223.85	0.000	4.499535	4.579025
1133	4.535758	.0213927	212.02	0.000	4.49383	4.577687
1134	4.532237	.0225708	200.80	0.000	4.487999	4.576475
1135	4.528715	.0238034	190.26	0.000	4.482061	4.575369
1136	4.525194	.0250823	180.41	0.000	4.476033	4.574354
1137	4.521672	.0264008	171.27	0.000	4.469927	4.573417
1138	4.51815	.0277534	162.80	0.000	4.463755	4.572546
1139	4.514629	.0291352	154.95	0.000	4.457525	4.571733
1140	4.511107	.0305422	147.70	0.000	4.451245	4.570969
1141	4.507585	.0319712	140.99	0.000	4.444923	4.570248
1142	4.504064	.0334194	134.77	0.000	4.438563	4.569564
1143	4.500542	.0348843	129.01	0.000	4.43217	4.568914
1144	4.49702	.0363639	123.67	0.000	4.425749	4.568292
1145	4.493499	.0378565	118.70	0.000	4.419301	4.567696
1146	4.489977	.0393606	114.07	0.000	4.412832	4.567123
1147	4.486456	.040875	109.76	0.000	4.406342	4.566569
1148	4.482934	.0423985	105.73	0.000	4.399834	4.566033
1149	4.479412	.0439214	101.70	0.000	4.393326	4.565496
1150	4.475890	.0454443	97.68	0.000	4.386817	4.564959

1151	4.616511	.0279674	165.07	0.000	4.561696	4.671326
1152	4.612883	.0265914	173.47	0.000	4.560765	4.665001
1153	4.609255	.0252516	182.53	0.000	4.559763	4.658747
1154	4.605627	.0239538	192.27	0.000	4.558678	4.652576
1155	4.601999	.0227055	202.68	0.000	4.557497	4.646501
1156	4.598371	.0215151	213.73	0.000	4.556202	4.64054
1157	4.594743	.0203929	225.31	0.000	4.554774	4.634712
1158	4.591115	.0193507	237.26	0.000	4.553188	4.629041
1159	4.587487	.018402	249.29	0.000	4.55142	4.623554
1160	4.583859	.0175621	261.01	0.000	4.549438	4.61828
1161	4.580231	.0168472	271.87	0.000	4.547211	4.613251
1162	4.576603	.0162739	281.22	0.000	4.544706	4.608499
1163	4.572975	.0158574	288.38	0.000	4.541895	4.604054
1164	4.569347	.0156103	292.71	0.000	4.538751	4.599942
1165	4.565718	.0155408	293.79	0.000	4.535259	4.596178
1166	4.56209	.0156511	291.49	0.000	4.531415	4.592766
1167	4.558462	.0159376	286.02	0.000	4.527225	4.5897
1168	4.554834	.016391	277.89	0.000	4.522708	4.58696
1169	4.551206	.016998	267.75	0.000	4.517891	4.584522
1170	4.547578	.0177428	256.31	0.000	4.512803	4.582353
1171	4.54395	.0186088	244.18	0.000	4.507478	4.580423
1172	4.540322	.01958	231.89	0.000	4.501946	4.578698
1173	4.536694	.0206416	219.78	0.000	4.496237	4.577151
1174	4.533066	.0217803	208.13	0.000	4.490377	4.575755
1175	4.529438	.0229847	197.06	0.000	4.484389	4.574487
1176	4.52581	.024245	186.67	0.000	4.478291	4.573329
1177	4.522182	.0255529	176.97	0.000	4.472099	4.572265
1178	4.518554	.0269015	167.97	0.000	4.465828	4.57128
1179	4.514926	.0282849	159.62	0.000	4.459488	4.570363
1180	4.511298	.0296983	151.90	0.000	4.45309	4.569505
1181	4.50767	.0311376	144.77	0.000	4.446641	4.568698
1182	4.504041	.0325994	138.16	0.000	4.440148	4.567935
1183	4.500413	.0340808	132.05	0.000	4.433616	4.567211
1184	4.496785	.0355793	126.39	0.000	4.427051	4.56652
1185	4.493157	.0370929	121.13	0.000	4.420457	4.565858
1186	4.489529	.0386198	116.25	0.000	4.413836	4.565223
1187	4.485901	.0401584	111.71	0.000	4.407192	4.56461
1188	4.482273	.0417075	107.47	0.000	4.400528	4.564018
1189	4.478645	.043266	103.51	0.000	4.393845	4.563445
1190	4.623735	.0315295	146.65	0.000	4.561939	4.685532
1191	4.620001	.0300612	153.69	0.000	4.561082	4.67892
1192	4.616266	.02862	161.29	0.000	4.560172	4.672361
1193	4.612532	.0272102	169.51	0.000	4.559201	4.665863
1194	4.608797	.025837	178.38	0.000	4.558158	4.659437
1195	4.605063	.0245063	187.91	0.000	4.557031	4.653094
1196	4.601328	.0232257	198.11	0.000	4.555807	4.64685
1197	4.597594	.0220038	208.95	0.000	4.554467	4.640721
1198	4.59386	.0208509	220.32	0.000	4.552993	4.634726
1199	4.590125	.0197791	232.07	0.000	4.551359	4.628891
1200	4.586391	.0188024	243.93	0.000	4.549539	4.623243
1201	4.582656	.0179362	255.50	0.000	4.547502	4.61781
1202	4.578922	.0171972	266.26	0.000	4.545216	4.612627
1203	4.575187	.0166024	275.57	0.000	4.542647	4.607727
1204	4.571453	.0161678	282.75	0.000	4.539764	4.603141
1205	4.567718	.0159065	287.16	0.000	4.536542	4.598894
1206	4.563984	.0158271	288.37	0.000	4.532963	4.595004
1207	4.560249	.0159323	286.23	0.000	4.529023	4.591476
1208	4.556515	.0162185	280.95	0.000	4.524727	4.588302
1209	4.55278	.0166763	273.01	0.000	4.520095	4.585465
1210	4.549046	.0172923	263.07	0.000	4.515154	4.582938
1211	4.545311	.0180501	251.82	0.000	4.509934	4.580689
1212	4.541577	.0189328	239.88	0.000	4.504469	4.578684
1213	4.537842	.0199237	227.76	0.000	4.498793	4.576892
1214	4.534108	.0210076	215.83	0.000	4.492934	4.575282
1215	4.530373	.0221709	204.34	0.000	4.486919	4.573827
1216	4.526639	.0234016	193.43	0.000	4.480773	4.572505
1217	4.522904	.0246897	183.19	0.000	4.474514	4.571295
1218	4.51917	.0260267	173.64	0.000	4.468159	4.570181
1219	4.515436	.0274055	164.76	0.000	4.461722	4.569149
1220	4.511701	.0288199	156.55	0.000	4.455215	4.568187
1221	4.507967	.0302651	148.95	0.000	4.448648	4.567285
1222	4.504232	.0317369	141.92	0.000	4.442029	4.566435
1223	4.500498	.0332316	135.43	0.000	4.435365	4.56563

1224	4.496763	.0347464	129.42	0.000	4.428661	4.564865
1225	4.493029	.0362788	123.85	0.000	4.421924	4.564134
1226	4.489294	.0378265	118.68	0.000	4.415156	4.563433
1227	4.48556	.0393878	113.88	0.000	4.408361	4.562758
1228	4.481825	.0409611	109.42	0.000	4.401543	4.562108
1229	4.478091	.0425451	105.26	0.000	4.394704	4.561478
1230	4.474356	.0441387	101.37	0.000	4.387846	4.560867
1231	4.623703	.0322556	143.35	0.000	4.560483	4.686923
1232	4.619862	.0307527	150.23	0.000	4.559588	4.680137
1233	4.616021	.0292772	157.67	0.000	4.558639	4.673404
1234	4.612181	.0278334	165.71	0.000	4.557628	4.666733
1235	4.60834	.0264266	174.38	0.000	4.556545	4.660135
1236	4.604499	.0250629	183.72	0.000	4.555376	4.653621
1237	4.600658	.0237499	193.71	0.000	4.554109	4.647207
1238	4.596817	.0224963	204.34	0.000	4.552725	4.640909
1239	4.592976	.0213126	215.50	0.000	4.551204	4.634748
1240	4.589135	.0202113	227.06	0.000	4.549522	4.628749
1241	4.585294	.0192063	238.74	0.000	4.547651	4.622938
1242	4.581453	.0183137	250.17	0.000	4.545559	4.617348
1243	4.577612	.0175505	260.83	0.000	4.543214	4.612011
1244	4.573772	.0169342	270.09	0.000	4.540581	4.606962
1245	4.569931	.0164814	277.28	0.000	4.537628	4.602234
1246	4.56609	.0162057	281.76	0.000	4.534327	4.597852
1247	4.562249	.0161163	283.08	0.000	4.530662	4.593836
1248	4.558408	.0162162	281.10	0.000	4.526625	4.590191
1249	4.554567	.016502	276.00	0.000	4.522224	4.58691
1250	4.550726	.0169643	268.25	0.000	4.517477	4.583976
1251	4.546885	.0175891	258.51	0.000	4.512411	4.581359
1252	4.543044	.01836	247.44	0.000	4.50706	4.579029
1253	4.539204	.0192593	235.69	0.000	4.501456	4.576951
1254	4.535363	.02027	223.75	0.000	4.495634	4.575091
1255	4.531522	.0213763	211.99	0.000	4.489625	4.573419
1256	4.527681	.0225641	200.66	0.000	4.483456	4.571906
1257	4.52384	.0238213	189.91	0.000	4.477151	4.570529
1258	4.519999	.0251374	179.81	0.000	4.470731	4.569267
1259	4.516158	.0265036	170.40	0.000	4.464212	4.568104
1260	4.512317	.0279126	161.66	0.000	4.45761	4.567025
1261	4.508476	.0293583	153.57	0.000	4.450935	4.566018
1262	4.504636	.0308354	146.09	0.000	4.444199	4.565072
1263	4.500795	.0323398	139.17	0.000	4.43741	4.564179
1264	4.496954	.0338676	132.78	0.000	4.430574	4.563333
1265	4.493113	.035416	126.87	0.000	4.423699	4.562527
1266	4.489272	.0369823	121.39	0.000	4.416788	4.561756
1267	4.485431	.0385643	116.31	0.000	4.409846	4.561016
1268	4.48159	.0401602	111.59	0.000	4.402878	4.560303
1269	4.477749	.0417684	107.20	0.000	4.395885	4.559614
1270	4.473908	.0433876	103.12	0.000	4.38887	4.558946
1271	4.470067	.0450164	99.30	0.000	4.381837	4.558298
1272	4.623671	.0329862	140.17	0.000	4.559019	4.688323
1273	4.619724	.0314485	146.90	0.000	4.558086	4.681362
1274	4.615777	.0299385	154.18	0.000	4.557098	4.674455
1275	4.611829	.0284607	162.04	0.000	4.556047	4.667611
1276	4.607882	.0270202	170.53	0.000	4.554923	4.66084
1277	4.603935	.0256233	179.68	0.000	4.553714	4.654155
1278	4.599987	.0242778	189.47	0.000	4.552404	4.647571
1279	4.59604	.0229924	199.89	0.000	4.550976	4.641104
1280	4.592093	.0217779	210.86	0.000	4.549409	4.634777
1281	4.588145	.0206469	222.22	0.000	4.547678	4.628612
1282	4.584198	.0196136	233.73	0.000	4.545756	4.62264
1283	4.580251	.0186945	245.01	0.000	4.54361	4.616891
1284	4.576303	.017907	255.56	0.000	4.541206	4.6114
1285	4.572356	.0172691	264.77	0.000	4.538509	4.606203
1286	4.568409	.016798	271.96	0.000	4.535485	4.601332
1287	4.564461	.0165078	276.50	0.000	4.532107	4.596816
1288	4.560514	.0164083	277.94	0.000	4.528354	4.592674
1289	4.556567	.0165028	276.11	0.000	4.524222	4.588912
1290	4.55262	.0167881	271.18	0.000	4.519715	4.585524
1291	4.548672	.0172547	263.62	0.000	4.514854	4.582491
1292	4.544725	.0178885	254.06	0.000	4.509664	4.579786
1293	4.540778	.0186723	243.18	0.000	4.504181	4.577375
1294	4.53683	.0195883	231.61	0.000	4.498438	4.575223
1295	4.532883	.0206188	219.84	0.000	4.492471	4.573295
1296	4.528936	.0217475	208.25	0.000	4.486311	4.57156

1297	4.524988	.022296	197.08	0.000	4.479988	4.569989
1298	4.521041	.0242436	186.48	0.000	4.473524	4.568558
1299	4.517094	.0255878	176.53	0.000	4.466943	4.567245
1300	4.513146	.0269834	167.26	0.000	4.46026	4.566033
1301	4.509199	.0284228	158.65	0.000	4.453491	4.564907
1302	4.505252	.0298998	150.68	0.000	4.446649	4.563854
1303	4.501304	.031409	143.31	0.000	4.439744	4.562865
1304	4.497357	.0329461	136.51	0.000	4.432784	4.56193
1305	4.49341	.0345072	130.22	0.000	4.425777	4.561043
1306	4.489463	.0360893	124.40	0.000	4.418729	4.560196
1307	4.485515	.0376897	119.01	0.000	4.411645	4.559386
1308	4.481568	.0393062	114.02	0.000	4.404529	4.558607
1309	4.477621	.0409369	109.38	0.000	4.397386	4.557855
1310	4.473673	.0425801	105.06	0.000	4.390218	4.557129
1311	4.469726	.0442345	101.05	0.000	4.383028	4.556424
1312	4.465779	.0458988	97.30	0.000	4.375819	4.555739
1313	4.4623639	.033721	137.11	0.000	4.557547	4.689731
1314	4.619585	.0321484	143.70	0.000	4.556576	4.682595
1315	4.615532	.0306038	150.82	0.000	4.555549	4.675514
1316	4.611478	.0290917	158.52	0.000	4.554459	4.668497
1317	4.607424	.0276174	166.83	0.000	4.553295	4.661553
1318	4.60337	.0261874	175.79	0.000	4.552044	4.654697
1319	4.599317	.0248092	185.39	0.000	4.550692	4.647942
1320	4.595263	.0234919	195.61	0.000	4.54922	4.641306
1321	4.591209	.0222465	206.38	0.000	4.547607	4.634812
1322	4.587156	.0210857	217.55	0.000	4.545828	4.628483
1323	4.583102	.0200241	228.88	0.000	4.543855	4.622348
1324	4.579048	.0190783	240.01	0.000	4.541655	4.616441
1325	4.574994	.0182664	250.46	0.000	4.539193	4.610796
1326	4.570941	.0176069	259.61	0.000	4.536432	4.605449
1327	4.566887	.0171173	266.80	0.000	4.533337	4.600436
1328	4.562833	.0168126	271.39	0.000	4.529881	4.595785
1329	4.558779	.0167029	272.93	0.000	4.526042	4.591516
1330	4.554726	.0167919	271.24	0.000	4.521814	4.587637
1331	4.550672	.0170767	266.48	0.000	4.517202	4.584142
1332	4.546618	.0175475	259.10	0.000	4.512226	4.581011
1333	4.542564	.0181901	249.73	0.000	4.506912	4.578216
1334	4.538511	.018987	239.03	0.000	4.501297	4.575725
1335	4.534457	.0199196	227.64	0.000	4.495415	4.573499
1336	4.530403	.0209699	216.04	0.000	4.489303	4.571504
1337	4.52635	.0221211	204.62	0.000	4.482993	4.569706
1338	4.522296	.0233583	193.61	0.000	4.476514	4.568077
1339	4.518242	.0246686	183.16	0.000	4.469893	4.566592
1340	4.514188	.0260409	173.35	0.000	4.463149	4.565228
1341	4.510135	.0274659	164.21	0.000	4.456302	4.563967
1342	4.506081	.0289359	155.73	0.000	4.449368	4.562794
1343	4.502027	.0304443	147.88	0.000	4.442357	4.561697
1344	4.497973	.0319857	140.62	0.000	4.435283	4.560664
1345	4.49392	.0335556	133.92	0.000	4.428152	4.559687
1346	4.489866	.0351501	127.73	0.000	4.420973	4.558759
1347	4.485812	.0367661	122.01	0.000	4.413752	4.557872
1348	4.481759	.0384007	116.71	0.000	4.406494	4.557023
1349	4.477705	.0400518	111.80	0.000	4.399205	4.556205
1350	4.473651	.0417174	107.24	0.000	4.391886	4.555416
1351	4.469597	.0433959	103.00	0.000	4.384543	4.554652
1352	4.465544	.0450856	99.05	0.000	4.377177	4.55391
1353	4.46149	.0467856	95.36	0.000	4.369792	4.553188
1354	4.4623607	.0344597	134.17	0.000	4.556067	4.691147
1355	4.619447	.0328521	140.61	0.000	4.555058	4.683836
1356	4.615287	.0312728	147.58	0.000	4.553993	4.67658
1357	4.611127	.0297264	155.12	0.000	4.552864	4.669389
1358	4.606966	.0282182	163.26	0.000	4.55166	4.662273
1359	4.602806	.0267548	172.04	0.000	4.550368	4.655245
1360	4.598646	.0253438	181.45	0.000	4.548973	4.648319
1361	4.594486	.0239947	191.48	0.000	4.547457	4.641515
1362	4.590326	.0227182	202.05	0.000	4.545799	4.634853
1363	4.586166	.0215275	213.04	0.000	4.543973	4.628359
1364	4.582006	.0204375	224.20	0.000	4.541949	4.622062
1365	4.577845	.0194651	235.18	0.000	4.539695	4.615996
1366	4.573685	.0186287	245.52	0.000	4.537174	4.610197
1367	4.569525	.0179474	254.61	0.000	4.534349	4.604701
1368	4.565365	.0174394	261.79	0.000	4.531184	4.599545
1369	4.561205	.01712	266.43	0.000	4.52765	4.594759

1370	4.557045	.017	268.06	0.000	4.523725	4.590364
1371	4.552884	.0170834	266.51	0.000	4.519402	4.586367
1372	4.548724	.0173675	261.91	0.000	4.514685	4.582764
1373	4.544564	.0178426	254.70	0.000	4.509593	4.579535
1374	4.540404	.018494	245.51	0.000	4.504156	4.576652
1375	4.536244	.0193038	234.99	0.000	4.498409	4.574079
1376	4.532084	.0202531	223.77	0.000	4.492388	4.571779
1377	4.527924	.0213233	212.35	0.000	4.486131	4.569716
1378	4.523763	.022497	201.08	0.000	4.47967	4.567857
1379	4.519603	.023759	190.23	0.000	4.473037	4.56617
1380	4.515443	.0250959	179.93	0.000	4.466256	4.56463
1381	4.511283	.0264965	170.26	0.000	4.459351	4.563215
1382	4.507123	.027951	161.25	0.000	4.45234	4.561906
1383	4.502963	.0294517	152.89	0.000	4.445238	4.560687
1384	4.498803	.0309916	145.16	0.000	4.43806	4.559545
1385	4.494642	.0325654	138.02	0.000	4.430815	4.558469
1386	4.490482	.0341682	131.42	0.000	4.423514	4.557451
1387	4.486322	.0357962	125.33	0.000	4.416163	4.556481
1388	4.482162	.0374462	119.70	0.000	4.408769	4.555555
1389	4.478002	.0391153	114.48	0.000	4.401337	4.554666
1390	4.473842	.0408011	109.65	0.000	4.393873	4.55381
1391	4.469681	.0425018	105.16	0.000	4.38638	4.552983
1392	4.465521	.0442155	100.99	0.000	4.378861	4.552182
1393	4.461361	.0459409	97.11	0.000	4.371319	4.551404
1394	4.457201	.0476766	93.49	0.000	4.363757	4.550645
1395	4.453041	.0494033	89.86	0.000	4.356257	4.549886
1396	4.448881	.0511260	86.23	0.000	4.348757	4.549127
1397	4.444721	.0528487	82.60	0.000	4.341257	4.548368
1398	4.440561	.0545714	78.97	0.000	4.333757	4.547609
1399	4.436401	.0562941	75.34	0.000	4.326257	4.546850
1400	4.432241	.0580168	71.71	0.000	4.318757	4.546091
1401	4.428081	.0597395	68.08	0.000	4.311257	4.545332
1402	4.423921	.0614622	64.45	0.000	4.303757	4.544573
1403	4.419761	.0631849	60.82	0.000	4.296257	4.543814
1404	4.415601	.0649076	57.19	0.000	4.288757	4.543055
1405	4.411441	.0666303	53.56	0.000	4.281257	4.542296
1406	4.407281	.0683530	49.93	0.000	4.273757	4.541537
1407	4.403121	.0700757	46.30	0.000	4.266257	4.540778
1408	4.398961	.0717984	42.67	0.000	4.258757	4.540019
1409	4.394801	.0735211	39.04	0.000	4.251257	4.539260
1410	4.390641	.0752438	35.41	0.000	4.243757	4.538501
1411	4.386481	.0769665	31.78	0.000	4.236257	4.537742
1412	4.382321	.0786892	28.15	0.000	4.228757	4.536983
1413	4.378161	.0804119	24.52	0.000	4.221257	4.536224
1414	4.374001	.0821346	20.89	0.000	4.213757	4.535465
1415	4.369841	.0838573	17.26	0.000	4.206257	4.534706
1416	4.365681	.0855800	13.63	0.000	4.198757	4.533947
1417	4.361521	.0873027	10.00	0.000	4.191257	4.533188
1418	4.357361	.0890254	6.37	0.000	4.183757	4.532429
1419	4.353201	.0907481	2.74	0.000	4.176257	4.531670
1420	4.349041	.0924708		0.000	4.168757	4.530911
1421	4.344881	.0941935		0.000	4.161257	4.530152
1422	4.340721	.0959162		0.000	4.153757	4.529393
1423	4.336561	.0976389		0.000	4.146257	4.528634
1424	4.332401	.0993616		0.000	4.138757	4.527875
1425	4.328241	.1010843		0.000	4.131257	4.527116
1426	4.324081	.1028070		0.000	4.123757	4.526357
1427	4.319921	.1045297		0.000	4.116257	4.525598
1428	4.315761	.1062524		0.000	4.108757	4.524839
1429	4.311601	.1079751		0.000	4.101257	4.524080
1430	4.307441	.1096978		0.000	4.093757	4.523321
1431	4.303281	.1114205		0.000	4.086257	4.522562
1432	4.299121	.1131432		0.000	4.078757	4.521803
1433	4.294961	.1148659		0.000	4.071257	4.521044
1434	4.290801	.1165886		0.000	4.063757	4.520285
1435	4.286641	.1183113		0.000	4.056257	4.519526
1436	4.282481	.1200340		0.000	4.048757	4.518767
1437	4.278321	.1217567		0.000	4.041257	4.518008
1438	4.274161	.1234794		0.000	4.033757	4.517249
1439	4.270001	.1252021		0.000	4.026257	4.516490
1440	4.265841	.1269248		0.000	4.018757	4.515731
1441	4.261681	.1286475		0.000	4.011257	4.514972
1442	4.257521	.1303702		0.000	4.003757	4.514213

1443	4.592932	.0250089	183.65	0.000	4.543915	4.641948
1444	4.588559	.0236702	193.85	0.000	4.542166	4.634952
1445	4.584186	.0224196	204.47	0.000	4.540244	4.628128
1446	4.579813	.0212725	215.29	0.000	4.53812	4.621506
1447	4.57544	.0202466	225.99	0.000	4.535757	4.615123
1448	4.571067	.0193611	236.10	0.000	4.53312	4.609014
1449	4.566694	.018636	245.05	0.000	4.530168	4.60322
1450	4.562321	.0180908	252.19	0.000	4.526864	4.597778
1451	4.557948	.0177419	256.90	0.000	4.523175	4.592722
1452	4.553575	.017601	258.71	0.000	4.519078	4.588072
1453	4.549202	.0176731	257.41	0.000	4.514563	4.583841
1454	4.544829	.0179557	253.11	0.000	4.509637	4.580022
1455	4.540456	.018439	246.24	0.000	4.504316	4.576596
1456	4.536083	.0191079	237.39	0.000	4.498632	4.573534
1457	4.53171	.0199437	227.23	0.000	4.492621	4.570799
1458	4.527337	.0209263	216.35	0.000	4.486322	4.568352
1459	4.522964	.0220362	205.25	0.000	4.479774	4.566154
1460	4.518591	.0232552	194.30	0.000	4.473012	4.56417
1461	4.514218	.0245669	183.75	0.000	4.466068	4.562368
1462	4.509845	.0259574	173.74	0.000	4.45897	4.560721
1463	4.505472	.0274147	164.35	0.000	4.45174	4.559204
1464	4.501099	.0289286	155.59	0.000	4.4444	4.557798
1465	4.496726	.0304908	147.48	0.000	4.436965	4.556487
1466	4.492353	.0320942	139.97	0.000	4.42945	4.555257
1467	4.48798	.0337329	133.04	0.000	4.421865	4.554095
1468	4.483607	.035402	126.65	0.000	4.414221	4.552994
1469	4.479234	.0370974	120.74	0.000	4.406525	4.551944
1470	4.474861	.0388157	115.28	0.000	4.398784	4.550939
1471	4.470488	.0405539	110.24	0.000	4.391004	4.549973
1472	4.466115	.0423097	105.56	0.000	4.38319	4.549041
1473	4.461742	.0440808	101.22	0.000	4.375346	4.548139
1474	4.457369	.0458656	97.18	0.000	4.367474	4.547264
1475	4.452996	.0476624	93.43	0.000	4.35958	4.546413
1476	4.448623	.0494701	89.93	0.000	4.351664	4.545583
1477	4.4623511	.036697	125.99	0.000	4.551586	4.695436
1478	4.619031	.0349836	132.03	0.000	4.550465	4.687598
1479	4.614552	.0332995	138.58	0.000	4.549286	4.679818
1480	4.610073	.0316495	145.66	0.000	4.548041	4.672105
1481	4.605593	.0300391	153.32	0.000	4.546718	4.664469
1482	4.601114	.0284751	161.58	0.000	4.545304	4.656924
1483	4.596634	.0269655	170.46	0.000	4.543783	4.649486
1484	4.592155	.02552	179.94	0.000	4.542137	4.642173
1485	4.587676	.0241502	189.96	0.000	4.540342	4.635009
1486	4.583196	.0228695	200.41	0.000	4.538373	4.628019
1487	4.578717	.0216937	211.06	0.000	4.536198	4.621236
1488	4.574237	.020641	221.61	0.000	4.533782	4.614693
1489	4.569758	.0197309	231.60	0.000	4.531086	4.60843
1490	4.565279	.0189839	240.48	0.000	4.528071	4.602486
1491	4.560799	.0184199	247.60	0.000	4.524697	4.596902
1492	4.55632	.0180562	252.34	0.000	4.52093	4.591709
1493	4.55184	.0179048	254.23	0.000	4.516748	4.586933
1494	4.547361	.0179711	253.04	0.000	4.512138	4.582584
1495	4.542882	.0182528	248.89	0.000	4.507107	4.578656
1496	4.538402	.0187402	242.17	0.000	4.501672	4.575132
1497	4.533923	.0194178	233.49	0.000	4.495864	4.571981
1498	4.529443	.0202665	223.49	0.000	4.489722	4.569165
1499	4.524964	.0212658	212.78	0.000	4.483284	4.566644
1500	4.520484	.0223956	201.85	0.000	4.47659	4.564379
1501	4.516005	.0236372	191.05	0.000	4.469677	4.562333
1502	4.511526	.0249739	180.65	0.000	4.462578	4.560474
1503	4.507046	.0263913	170.78	0.000	4.45532	4.558772
1504	4.502567	.0278771	161.52	0.000	4.447929	4.557205
1505	4.498087	.0294208	152.89	0.000	4.440424	4.555751
1506	4.493608	.0310139	144.89	0.000	4.432822	4.554394
1507	4.489129	.0326491	137.50	0.000	4.425138	4.55312
1508	4.484649	.0343204	130.67	0.000	4.417382	4.551916
1509	4.48017	.0360228	124.37	0.000	4.409566	4.550773
1510	4.47569	.0377521	118.55	0.000	4.401698	4.549683
1511	4.471211	.0395048	113.18	0.000	4.393783	4.548639
1512	4.466732	.0412778	108.21	0.000	4.385829	4.547635
1513	4.462252	.0430686	103.61	0.000	4.377839	4.546665
1514	4.457773	.0448752	99.34	0.000	4.369819	4.545727
1515	4.453293	.0466956	95.37	0.000	4.361772	4.544815

1516	4.448814	.0485284	91.67	0.000	4.3537	4.543928
1517	4.444335	.0503722	88.23	0.000	4.345607	4.543062
1518	4.623479	.0374491	123.46	0.000	4.55008	4.696878
1519	4.618893	.0357002	129.38	0.000	4.548922	4.688864
1520	4.614307	.0339811	135.79	0.000	4.547705	4.680909
1521	4.609721	.0322964	142.73	0.000	4.546422	4.673021
1522	4.605135	.0306518	150.24	0.000	4.545059	4.665212
1523	4.60055	.0290541	158.34	0.000	4.543605	4.657494
1524	4.595964	.0275114	167.06	0.000	4.542042	4.649885
1525	4.591378	.0260337	176.36	0.000	4.540353	4.642403
1526	4.586792	.0246325	186.21	0.000	4.538513	4.635071
1527	4.582206	.0233217	196.48	0.000	4.536497	4.627916
1528	4.57762	.0221173	206.97	0.000	4.534271	4.62097
1529	4.573035	.0210377	217.37	0.000	4.531802	4.614268
1530	4.568449	.0201029	227.25	0.000	4.529048	4.60785
1531	4.563863	.0193339	236.05	0.000	4.525969	4.601757
1532	4.559277	.0187512	243.15	0.000	4.522525	4.596029
1533	4.554691	.0183725	247.91	0.000	4.518682	4.590701
1534	4.550106	.0182105	249.86	0.000	4.514414	4.585798
1535	4.54552	.018271	248.78	0.000	4.509709	4.58133
1536	4.540934	.0185519	244.77	0.000	4.504573	4.577295
1537	4.536348	.0190433	238.21	0.000	4.499024	4.573672
1538	4.531762	.0197295	229.69	0.000	4.493093	4.570431
1539	4.527176	.0205911	219.86	0.000	4.486819	4.567534
1540	4.522591	.0216071	209.31	0.000	4.480241	4.56494
1541	4.518005	.0227569	198.53	0.000	4.473402	4.562607
1542	4.513419	.0240212	187.89	0.000	4.466338	4.5605
1543	4.508833	.0253829	177.63	0.000	4.459084	4.558583
1544	4.504247	.0268272	167.90	0.000	4.451667	4.556828
1545	4.499661	.0283415	158.77	0.000	4.444113	4.55521
1546	4.495076	.0299151	150.26	0.000	4.436443	4.553708
1547	4.49049	.0315392	142.38	0.000	4.428674	4.552306
1548	4.485904	.0332064	135.09	0.000	4.420821	4.550987
1549	4.481318	.0349104	128.37	0.000	4.412895	4.549741
1550	4.476732	.0366462	122.16	0.000	4.404907	4.548558
1551	4.472147	.0384094	116.43	0.000	4.396865	4.547428
1552	4.467561	.0401965	111.14	0.000	4.388777	4.546344
1553	4.462975	.0420044	106.25	0.000	4.380648	4.545302
1554	4.458389	.0438304	101.72	0.000	4.372483	4.544295
1555	4.453803	.0456725	97.52	0.000	4.364287	4.54332
1556	4.449217	.0475288	93.61	0.000	4.356063	4.542372
1557	4.444632	.0493977	89.98	0.000	4.347814	4.541449
1558	4.440046	.0512777	86.59	0.000	4.339543	4.540548
1559	4.623447	.038204	121.02	0.000	4.548568	4.698325
1560	4.618754	.0364197	126.82	0.000	4.547373	4.690136
1561	4.614062	.0346653	133.10	0.000	4.546119	4.682005
1562	4.60937	.0329458	139.91	0.000	4.544797	4.673943
1563	4.604678	.0312669	147.27	0.000	4.543396	4.66596
1564	4.599985	.0296354	155.22	0.000	4.541901	4.65807
1565	4.595293	.0280597	163.77	0.000	4.540297	4.650289
1566	4.590601	.0265497	172.91	0.000	4.538564	4.642637
1567	4.585909	.0251172	182.58	0.000	4.53668	4.635137
1568	4.581216	.0237762	192.68	0.000	4.534616	4.627817
1569	4.576524	.0225431	203.01	0.000	4.53234	4.620708
1570	4.571832	.0214366	213.27	0.000	4.529817	4.613847
1571	4.56714	.020477	223.04	0.000	4.527006	4.607274
1572	4.562447	.019686	231.76	0.000	4.523864	4.601031
1573	4.557755	.0190845	238.82	0.000	4.52035	4.59516
1574	4.553063	.0186908	243.60	0.000	4.51643	4.589696
1575	4.548371	.0185182	245.62	0.000	4.512076	4.584666
1576	4.543679	.0185728	244.64	0.000	4.507276	4.580081
1577	4.538986	.0188527	240.76	0.000	4.502036	4.575937
1578	4.534294	.0193481	234.35	0.000	4.496373	4.572216
1579	4.529602	.020043	225.99	0.000	4.490318	4.568885
1580	4.52491	.0209175	216.32	0.000	4.483912	4.565907
1581	4.520217	.0219502	205.93	0.000	4.477196	4.563239
1582	4.515525	.0231199	195.31	0.000	4.470211	4.560839
1583	4.510833	.0244069	184.82	0.000	4.462996	4.55867
1584	4.506141	.0257937	174.70	0.000	4.455586	4.556695
1585	4.501448	.027265	165.10	0.000	4.44801	4.554887
1586	4.496756	.0288079	156.09	0.000	4.440294	4.553218
1587	4.492064	.0304114	147.71	0.000	4.432459	4.551669
1588	4.487372	.0320666	139.94	0.000	4.424522	4.550221

1589	4.482679	.0337658	132.76	0.000	4.4165	4.548859
1590	4.477987	.0355026	126.13	0.000	4.408403	4.547571
1591	4.473295	.0372719	120.02	0.000	4.400243	4.546347
1592	4.468603	.0390692	114.38	0.000	4.392028	4.545177
1593	4.46391	.0408908	109.17	0.000	4.383766	4.544055
1594	4.459218	.0427336	104.35	0.000	4.375462	4.542975
1595	4.454526	.044595	99.89	0.000	4.367121	4.541931
1596	4.449834	.0464728	95.75	0.000	4.358749	4.540919
1597	4.445141	.048365	91.91	0.000	4.350348	4.539935
1598	4.440449	.05027	88.33	0.000	4.341922	4.538977
1599	4.435757	.0521864	85.00	0.000	4.333474	4.53804
1600	4.623415	.0389616	118.67	0.000	4.547051	4.699778
1601	4.618616	.0371417	124.35	0.000	4.54582	4.691412
1602	4.613817	.0353521	130.51	0.000	4.544528	4.683106
1603	4.609019	.0335977	137.18	0.000	4.543168	4.674869
1604	4.60422	.0318844	144.40	0.000	4.541728	4.666712
1605	4.599421	.0302191	152.20	0.000	4.540193	4.65865
1606	4.594623	.0286103	160.59	0.000	4.538547	4.650698
1607	4.589824	.0270679	169.57	0.000	4.536772	4.642876
1608	4.585025	.025604	179.07	0.000	4.534842	4.635208
1609	4.580227	.0242328	189.01	0.000	4.532731	4.627722
1610	4.575428	.022971	199.18	0.000	4.530406	4.62045
1611	4.570629	.0218374	209.30	0.000	4.527829	4.61343
1612	4.565831	.0208531	218.95	0.000	4.524959	4.606702
1613	4.561032	.02004	227.60	0.000	4.521754	4.60031
1614	4.556233	.0194197	234.62	0.000	4.518171	4.594295
1615	4.551435	.019011	239.41	0.000	4.514174	4.588695
1616	4.546636	.0188277	241.49	0.000	4.509734	4.583538
1617	4.541837	.0188764	240.61	0.000	4.50484	4.578834
1618	4.537039	.0191552	236.86	0.000	4.499495	4.574582
1619	4.53224	.0196545	230.60	0.000	4.493718	4.570762
1620	4.527441	.0203581	222.39	0.000	4.48754	4.567342
1621	4.522643	.0212455	212.88	0.000	4.481002	4.564283
1622	4.517844	.0222949	202.64	0.000	4.474147	4.561541
1623	4.513045	.0234846	192.17	0.000	4.467016	4.559074
1624	4.508247	.0247943	181.83	0.000	4.459651	4.556843
1625	4.503448	.0262062	171.85	0.000	4.452085	4.554811
1626	4.498649	.0277045	162.38	0.000	4.44435	4.552949
1627	4.493851	.0292761	153.50	0.000	4.436471	4.551231
1628	4.489052	.0309097	145.23	0.000	4.42847	4.549634
1629	4.484253	.032596	137.57	0.000	4.420366	4.54814
1630	4.479455	.0343273	130.49	0.000	4.412175	4.546735
1631	4.474656	.036097	123.96	0.000	4.403907	4.545405
1632	4.469857	.0378998	117.94	0.000	4.395575	4.54414
1633	4.465059	.0397313	112.38	0.000	4.387187	4.542931
1634	4.46026	.0415875	107.25	0.000	4.37875	4.54177
1635	4.455461	.0434654	102.51	0.000	4.370271	4.540652
1636	4.450663	.0453622	98.11	0.000	4.361755	4.539571
1637	4.445864	.0472757	94.04	0.000	4.353206	4.538523
1638	4.441065	.0492039	90.26	0.000	4.344628	4.537503
1639	4.436267	.0511451	86.74	0.000	4.336024	4.536509
1640	4.431468	.053098	83.46	0.000	4.327398	4.535538
1641	4.623382	.0397218	116.39	0.000	4.545529	4.701236
1642	4.618477	.0378662	121.97	0.000	4.544261	4.692694
1643	4.613572	.0360412	128.01	0.000	4.542933	4.684212
1644	4.608667	.034252	134.55	0.000	4.541535	4.6758
1645	4.603762	.0325042	141.64	0.000	4.540055	4.667469
1646	4.598857	.030805	149.29	0.000	4.53848	4.659234
1647	4.593952	.029163	157.53	0.000	4.536794	4.65111
1648	4.589047	.0275882	166.34	0.000	4.534975	4.643119
1649	4.584142	.0260929	175.69	0.000	4.533001	4.635283
1650	4.579237	.0246914	185.46	0.000	4.530842	4.627631
1651	4.574332	.0234008	195.48	0.000	4.528467	4.620196
1652	4.569427	.0222403	205.46	0.000	4.525837	4.613017
1653	4.564522	.0212311	214.99	0.000	4.522909	4.606134
1654	4.559616	.0203959	223.56	0.000	4.519641	4.599592
1655	4.554711	.0197567	230.54	0.000	4.515989	4.593434
1656	4.549806	.0193329	235.34	0.000	4.511914	4.587698
1657	4.544901	.0191389	237.47	0.000	4.50739	4.582413
1658	4.539996	.0191816	236.69	0.000	4.502401	4.577591
1659	4.535091	.0194594	233.05	0.000	4.496951	4.573231
1660	4.530186	.0199626	226.93	0.000	4.49106	4.569312
1661	4.525281	.0206747	218.88	0.000	4.484759	4.565803

1662	4.520376	.0215751	209.52	0.000	4.47809	4.562662
1663	4.515471	.0226412	199.44	0.000	4.471095	4.559847
1664	4.510566	.0238508	189.12	0.000	4.463819	4.557312
1665	4.505661	.0251834	178.91	0.000	4.456302	4.555019
1666	4.500756	.0266204	169.07	0.000	4.448581	4.552931
1667	4.49585	.0281458	159.73	0.000	4.440686	4.551015
1668	4.490945	.0297461	150.98	0.000	4.432644	4.549247
1669	4.48604	.0314098	142.82	0.000	4.424478	4.547602
1670	4.481135	.0331273	135.27	0.000	4.416207	4.546064
1671	4.47623	.0348907	128.29	0.000	4.407846	4.544615
1672	4.471325	.0366934	121.86	0.000	4.399407	4.543243
1673	4.46642	.0385299	115.92	0.000	4.390903	4.541937
1674	4.461515	.0403956	110.45	0.000	4.382341	4.540689
1675	4.45661	.0422865	105.39	0.000	4.37373	4.53949
1676	4.451705	.0441995	100.72	0.000	4.365075	4.538334
1677	4.4468	.0461318	96.39	0.000	4.356383	4.537216
1678	4.441895	.0480811	92.38	0.000	4.347657	4.536132
1679	4.43699	.0500455	88.66	0.000	4.338902	4.535077
1680	4.432084	.0520231	85.19	0.000	4.330121	4.534048
1681	4.427179	.0540125	81.97	0.000	4.321317	4.533042

```

.
. matrix predictions =r(at) , r(b)'

.
. clear

.
. svmat predictions, names(col)
number of observations will be reset to 1681
Press any key to continue, or Break to abort
Number of observations (_N) was 0, now 1,681.

.
. rename r1 pred_lreer

.
. save contour-plot-08-19-yr-effects, replace
(file contour-plot-08-19-yr-effects.dta not found)
file contour-plot-08-19-yr-effects.dta saved

.
. // Use python to plot the 3-D figure
.
. python search

```

```

Python environments found:
C:\Users\jamel\AppData\Local\Programs\Python\Python313\python.exe
C:\ProgramData\anaconda3\python.exe

```

```

.
. *cmd then, "C:\Users\jamel\AppData\Local\Programs\Python\Python313\python.exe" -m pip install matplotlib
.
. clear

.
. python:
_____ python (type end to exit) _____

>>>
>>> import pandas as pd
>>> data = pd.read_stata("contour-plot-08-19-yr-effects.dta")
>>> data[['etot', 'L1lres', 'pred_lreer']]
      etot  L1lres  pred_lreer
0      1.0      1.0    4.624666
1      1.0      1.1    4.624017
2      1.0      1.2    4.623369
3      1.0      1.3    4.622720
4      1.0      1.4    4.622072
...      ...      ...      ...
1676    5.0      4.6    4.446800
1677    5.0      4.7    4.441895

```

```
1678  5.0    4.8    4.436989
1679  5.0    4.9    4.432085
1680  5.0    5.0    4.427179
```

```
[1681 rows x 3 columns]
```

```
>>>
>>> end
```

```
.
. // Create the three-dimensional surface plot with Python
. // Install matplotlib with conda (cmd)
. python:
python (type end to exit)
>>> import pandas as pd
>>> import numpy as np
>>> import matplotlib.pyplot as plt
>>> from mpl_toolkits.mplot3d import Axes3D # Needed for 3D plots
>>>
>>> # Load the Stata dataset
... data = pd.read_stata("contour-plot-08-19-yr-effects.dta")
>>>
>>> # Create a new 3D figure
... fig = plt.figure()
>>> ax = fig.add_subplot(111, projection='3d')
>>>
>>> # Plot the 3D surface using triangular surface interpolation
... ax.plot_trisurf(
...     data['etot'],
...     data['l1lres'],
...     data['pred_lreer'],
...     cmap=plt.cm.Spectral_r
... )
<mpl_toolkits.mplot3d.art3d.Poly3DCollection object at 0x000000004895CE10>
>>>
>>> # Set axis ticks
... ax.set_xticks(np.arange(1, 5, step=1))
[<matplotlib.axis.XTick object at 0x00000000488D60D0>, <matplotlib.axis.XTick object at 0x000000004895CF50>, <matplotlib.axis.XTick object at 0x000000004895D050>]
>>> ax.set_yticks(np.arange(1, 5, step=1))
[<matplotlib.axis.XTick object at 0x00000000488D6FD0>, <matplotlib.axis.XTick object at 0x000000004895E5D0>, <matplotlib.axis.XTick object at 0x000000004895E6D0>]
>>> ax.set_zticks(np.arange(4.42, 4.62, step=0.04))
[<matplotlib.axis.XTick object at 0x000000004895C690>, <matplotlib.axis.XTick object at 0x000000004895FC50>, <matplotlib.axis.XTick object at 0x000000004895FD50>, <matplotlib.axis.XTick object at 0x000000004895FE50>, <matplotlib.axis.XTick object at 0x000000004895FF50>, <matplotlib.axis.XTick object at 0x0000000048960050>]
>>>
>>> # Set title and axis labels (only once!)
... ax.set_title("Buffer Effect")
Text(0.5, 0.92, 'Buffer Effect')
>>> ax.set_xlabel("Log of effective terms of trade")
Text(0.5, 0, 'Log of effective terms of trade')
>>> ax.set_ylabel("Log of lagged reserves")
Text(0.5, 0.5, 'Log of lagged reserves')
>>> ax.zaxis.set_rotate_label(False)
>>> ax.set_zlabel("Predicted REER", rotation=90)
Text(0.5, 0, 'Predicted REER')
>>>
>>> # Set the view angle (elevation and azimuth)
... ax.view_init(elev=30, azim=75)
>>>
>>> # Save the figure in high resolution
... plt.savefig("Margins3d.png", dpi=1200)
>>> # plt.savefig("Margins3d.pdf", dpi=1200)
>>> # Close the plot to prevent duplicate displays
... plt.close()
>>> end
```

```

.
. ***# Fig. B.2. Panel LP for the buffer effect on the RER.
.
. use datafintransformed-22-11-17, clear

.
. // Set scheme
.
. set scheme Cleanplots

.
. *ssc install locproj
.
. locproj lreer etot l1lres (c.etot#c.l1lres) l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr if count_lgovexp==20, fe ///
> z robust irfn(A) save noisily stats ///
> lcs((c.etot#c.l1lres)) title(`"lcs((c.etot#c.l1lres))"')
lreer_h(0)

```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0318851	.0207119	1.54	0.124	-.0087095	.0724797
c.etot#c.l1lres	-.0191453	.0070562	-2.71	0.007	-.0329752	-.0053154
l1lres	.0286154	.0178752	1.60	0.109	-.0064193	.0636501
lgdppk_m100						
l1.	.6295401	.1314974	4.79	0.000	.3718099	.8872703
lgovexp						
l1.	.1092448	.0493832	2.21	0.027	.0124554	.2060342
irr						
l1.	-.0166126	.0033461	-4.96	0.000	-.0231708	-.0100545
_cons	1.455139	.6253454	2.33	0.020	.2294842	2.680793

lreer_h(1)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0386231	.0203523	1.90	0.058	-.0012668	.078513
c.etot#c.l1lres	-.0204442	.0067604	-3.02	0.002	-.0336943	-.0071941
l1lres	.042	.0167848	2.50	0.012	.0091023	.0748976
lgdppk_m100						
l1.	.5983556	.1307737	4.58	0.000	.3420437	.8546674
lgovexp						
l1.	.0834504	.0518402	1.61	0.107	-.0181546	.1850554
irr						
l1.	-.0151953	.0031899	-4.76	0.000	-.0214473	-.0089432
_cons	1.630795	.627912	2.60	0.009	.4001104	2.86148

lreer_h(2)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.030875	.0195428	1.58	0.114	-.0074282	.0691782
c.etot#c.l1lres	-.0169588	.0065819	-2.58	0.010	-.029859	-.0040586
l1lres	.0434862	.0160624	2.71	0.007	.0120044	.0749679
lgdppk_m100						
l1.	.4878096	.1280025	3.81	0.000	.2369293	.7386899
lgovexp						

L1.	.0583848	.0540593	1.08	0.280	-.0475695	.1643392
irr						
L1.	-.0146758	.0032167	-4.56	0.000	-.0209805	-.0083711
_cons	2.211606	.6203519	3.57	0.000	.9957389	3.427474

lreer_h(3)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.014017	.0194291	0.72	0.471	-.0240633	.0520974
c.etot#c.L1lres	-.009733	.0064602	-1.51	0.132	-.0223947	.0029287
L1lres	.0396829	.0149814	2.65	0.008	.0103198	.069046
lgdppk_m100						
L1.	.3466015	.123372	2.81	0.005	.1047969	.5884061
lgovexp						
L1.	.0500052	.0551525	0.91	0.365	-.0580917	.1581022
irr						
L1.	-.0146485	.003331	-4.40	0.000	-.0211772	-.0081199
_cons	2.907773	.5949319	4.89	0.000	1.741728	4.073818

lreer_h(4)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0013009	.0196407	0.07	0.947	-.0371942	.0397961
c.etot#c.L1lres	-.0040355	.0065712	-0.61	0.539	-.0169148	.0088438
L1lres	.0406836	.0146104	2.78	0.005	.0120477	.0693194
lgdppk_m100						
L1.	.1915255	.1226413	1.56	0.118	-.0488471	.431898
lgovexp						
L1.	.0329191	.0531668	0.62	0.536	-.0712859	.1371241
irr						
L1.	-.0133794	.0033273	-4.02	0.000	-.0199008	-.0068579
_cons	3.670018	.5918102	6.20	0.000	2.510091	4.829944

lreer_h(5)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	-.0008489	.0193687	-0.04	0.965	-.0388108	.0371113
c.etot#c.L1lres	-.0012997	.0067906	-0.19	0.848	-.0146091	.0120096
L1lres	.045536	.0144092	3.16	0.002	.0172945	.0737775
lgdppk_m100						
L1.	.055835	.1289535	0.43	0.665	-.1969093	.3085792
lgovexp						
L1.	.0231098	.0521402	0.44	0.658	-.0790831	.1253026
irr						
L1.	-.0106385	.0037737	-2.82	0.005	-.0180349	-.0032422
_cons	4.302292	.6267042	6.86	0.000	3.073975	5.53061

Statistics by step

	N	R2	psR2	F	Chi2	Prob
0	1895	0.175	.	15.61	.	0.000
1	1797	0.164	.	15.08	.	0.000
2	1698	0.137	.	12.88	.	0.000
3	1599	0.108	.	8.14	.	0.000
4	1500	0.080	.	5.31	.	0.000
5	1400	0.058	.	3.26	.	0.006

Impulse Response Function

	IRF	Std.Err.	IRF LOW	IRF UP
0	-0.01915	0.00706	-0.03315	-0.00514
1	-0.02044	0.00676	-0.03386	-0.00703
2	-0.01696	0.00658	-0.03002	-0.00390
3	-0.00973	0.00646	-0.02255	0.00309
4	-0.00404	0.00657	-0.01707	0.00900
5	-0.00130	0.00679	-0.01477	0.01217

```
.
. graph rename Graph ivfi_lcs, replace

.
. locproj lreer etot L1lres (c.etot#c.L1lres) l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr if count_lgovexp==20, fe ///
> z robust irfn(B) save noisily stats ///
> lcs(etot+(c.etot#c.L1lres)) title("`lcs(etot+(c.etot#c.L1lres))'")
lreer_h(0)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0318851	.0207119	1.54	0.124	-.0087095	.0724797
c.etot#c.L1lres	-.0191453	.0070562	-2.71	0.007	-.0329752	-.0053154
L1lres	.0286154	.0178752	1.60	0.109	-.0064193	.0636501
lgdppk_m100 L1.	.6295401	.1314974	4.79	0.000	.3718099	.8872703
lgovexp L1.	.1092448	.0493832	2.21	0.027	.0124554	.2060342
irr L1.	-.0166126	.0033461	-4.96	0.000	-.0231708	-.0100545
_cons	1.455139	.6253454	2.33	0.020	.2294842	2.680793

lreer_h(1)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0386231	.0203523	1.90	0.058	-.0012668	.078513
c.etot#c.L1lres	-.0204442	.0067604	-3.02	0.002	-.0336943	-.0071941
L1lres	.042	.0167848	2.50	0.012	.0091023	.0748976
lgdppk_m100 L1.	.5983556	.1307737	4.58	0.000	.3420437	.8546674
lgovexp L1.	.0834504	.0518402	1.61	0.107	-.0181546	.1850554
irr L1.	-.0151953	.0031899	-4.76	0.000	-.0214473	-.0089432
_cons	1.630795	.627912	2.60	0.009	.4001104	2.86148

lreer_h(2)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
--	-------------	-----------	---	------	----------------------	--

etot	.030875	.0195428	1.58	0.114	-.0074282	.0691782
c.etot#c.L1lres	-.0169588	.0065819	-2.58	0.010	-.029859	-.0040586
L1lres	.0434862	.0160624	2.71	0.007	.0120044	.0749679
lgdppk_m100 L1.	.4878096	.1280025	3.81	0.000	.2369293	.7386899
lgovexp L1.	.0583848	.0540593	1.08	0.280	-.0475695	.1643392
irr L1.	-.0146758	.0032167	-4.56	0.000	-.0209805	-.0083711
_cons	2.211606	.6203519	3.57	0.000	.9957389	3.427474

lreer_h(3)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.014017	.0194291	0.72	0.471	-.0240633	.0520974
c.etot#c.L1lres	-.009733	.0064602	-1.51	0.132	-.0223947	.0029287
L1lres	.0396829	.0149814	2.65	0.008	.0103198	.069046
lgdppk_m100 L1.	.3466015	.123372	2.81	0.005	.1047969	.5884061
lgovexp L1.	.0500052	.0551525	0.91	0.365	-.0580917	.1581022
irr L1.	-.0146485	.003331	-4.40	0.000	-.0211772	-.0081199
_cons	2.907773	.5949319	4.89	0.000	1.741728	4.073818

lreer_h(4)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0013009	.0196407	0.07	0.947	-.0371942	.0397961
c.etot#c.L1lres	-.0040355	.0065712	-0.61	0.539	-.0169148	.0088438
L1lres	.0406836	.0146104	2.78	0.005	.0120477	.0693194
lgdppk_m100 L1.	.1915255	.1226413	1.56	0.118	-.0488471	.431898
lgovexp L1.	.0329191	.0531668	0.62	0.536	-.0712859	.1371241
irr L1.	-.0133794	.0033273	-4.02	0.000	-.0199008	-.0068579
_cons	3.670018	.5918102	6.20	0.000	2.510091	4.829944

lreer_h(5)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	-.0008489	.0193687	-0.04	0.965	-.0388108	.0371113
c.etot#c.L1lres	-.0012997	.0067906	-0.19	0.848	-.0146091	.0120096
L1lres	.045536	.0144092	3.16	0.002	.0172945	.0737775
lgdppk_m100 L1.	.055835	.1289535	0.43	0.665	-.1969093	.3085792

lgovexp						
L1.	.0231098	.0521402	0.44	0.658	-.0790831	.1253026
irr						
L1.	-.0106385	.0037737	-2.82	0.005	-.0180349	-.0032422
_cons	4.302292	.6267042	6.86	0.000	3.073975	5.53061

Statistics by step

	N	R2	psR2	F	Chi2	Prob
0	1895	0.175	.	15.61	.	0.000
1	1797	0.164	.	15.08	.	0.000
2	1698	0.137	.	12.88	.	0.000
3	1599	0.108	.	8.14	.	0.000
4	1500	0.080	.	5.31	.	0.000
5	1400	0.058	.	3.26	.	0.006

Impulse Response Function

	IRF	Std.Err.	IRF LOW	IRF UP
0	0.01274	0.01442	-0.01587	0.04135
1	0.01818	0.01434	-0.01027	0.04663
2	0.01392	0.01362	-0.01311	0.04094
3	0.00428	0.01353	-0.02257	0.03114
4	-0.00273	0.01358	-0.02969	0.02422
5	-0.00215	0.01317	-0.02828	0.02398

```
.
. graph rename Graph ivfi_lcs1, replace
.
. locproj lreer etot L1lres (c.etot#c.L1lres) l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr if count_lgovexp==20, fe ///
> z robust irfn(C) save noisily stats ///
> lcs(L1lres+(c.etot#c.L1lres)) title(`"lcs(L1lres+(c.etot#c.L1lres))"')
lreer_h(0)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0318851	.0207119	1.54	0.124	-.0087095	.0724797
c.etot#c.L1lres	-.0191453	.0070562	-2.71	0.007	-.0329752	-.0053154
L1lres	.0286154	.0178752	1.60	0.109	-.0064193	.0636501
lgdppk_m100						
L1.	.6295401	.1314974	4.79	0.000	.3718099	.8872703
lgovexp						
L1.	.1092448	.0493832	2.21	0.027	.0124554	.2060342
irr						
L1.	-.0166126	.0033461	-4.96	0.000	-.0231708	-.0100545
_cons	1.455139	.6253454	2.33	0.020	.2294842	2.680793

lreer_h(1)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0386231	.0203523	1.90	0.058	-.0012668	.078513
c.etot#c.L1lres	-.0204442	.0067604	-3.02	0.002	-.0336943	-.0071941
L1lres	.042	.0167848	2.50	0.012	.0091023	.0748976
lgdppk_m100						
L1.	.5983556	.1307737	4.58	0.000	.3420437	.8546674

lgovexp						
L1.	.0834504	.0518402	1.61	0.107	-.0181546	.1850554
irr						
L1.	-.0151953	.0031899	-4.76	0.000	-.0214473	-.0089432
_cons	1.630795	.627912	2.60	0.009	.4001104	2.86148

lreer_h(2)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.030875	.0195428	1.58	0.114	-.0074282	.0691782
c.etot#c.L1lres	-.0169588	.0065819	-2.58	0.010	-.029859	-.0040586
L1lres	.0434862	.0160624	2.71	0.007	.0120044	.0749679
lgdppk_m100						
L1.	.4878096	.1280025	3.81	0.000	.2369293	.7386899
lgovexp						
L1.	.0583848	.0540593	1.08	0.280	-.0475695	.1643392
irr						
L1.	-.0146758	.0032167	-4.56	0.000	-.0209805	-.0083711
_cons	2.211606	.6203519	3.57	0.000	.9957389	3.427474

lreer_h(3)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.014017	.0194291	0.72	0.471	-.0240633	.0520974
c.etot#c.L1lres	-.009733	.0064602	-1.51	0.132	-.0223947	.0029287
L1lres	.0396829	.0149814	2.65	0.008	.0103198	.069046
lgdppk_m100						
L1.	.3466015	.123372	2.81	0.005	.1047969	.5884061
lgovexp						
L1.	.0500052	.0551525	0.91	0.365	-.0580917	.1581022
irr						
L1.	-.0146485	.003331	-4.40	0.000	-.0211772	-.0081199
_cons	2.907773	.5949319	4.89	0.000	1.741728	4.073818

lreer_h(4)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	.0013009	.0196407	0.07	0.947	-.0371942	.0397961
c.etot#c.L1lres	-.0040355	.0065712	-0.61	0.539	-.0169148	.0088438
L1lres	.0406836	.0146104	2.78	0.005	.0120477	.0693194
lgdppk_m100						
L1.	.1915255	.1226413	1.56	0.118	-.0488471	.431898
lgovexp						
L1.	.0329191	.0531668	0.62	0.536	-.0712859	.1371241
irr						
L1.	-.0133794	.0033273	-4.02	0.000	-.0199008	-.0068579
_cons	3.670018	.5918102	6.20	0.000	2.510091	4.829944

lreer_h(5)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
etot	-.0008489	.0193687	-0.04	0.965	-.0388108	.0371113
c.etot#c.L1lres	-.0012997	.0067906	-0.19	0.848	-.0146091	.0120096
L1lres	.045536	.0144092	3.16	0.002	.0172945	.0737775
lgdppk_m100 L1.	.055835	.1289535	0.43	0.665	-.1969093	.3085792
lgovexp L1.	.0231098	.0521402	0.44	0.658	-.0790831	.1253026
irr L1.	-.0106385	.0037737	-2.82	0.005	-.0180349	-.0032422
_cons	4.302292	.6267042	6.86	0.000	3.073975	5.53061

Statistics by step

	N	R2	psR2	F	Chi2	Prob
0	1895	0.175	.	15.61	.	0.000
1	1797	0.164	.	15.08	.	0.000
2	1698	0.137	.	12.88	.	0.000
3	1599	0.108	.	8.14	.	0.000
4	1500	0.080	.	5.31	.	0.000
5	1400	0.058	.	3.26	.	0.006

Impulse Response Function

	IRF	Std.Err.	IRF LOW	IRF UP
0	0.00947	0.01767	-0.02559	0.04454
1	0.02156	0.01728	-0.01273	0.05585
2	0.02653	0.01714	-0.00748	0.06053
3	0.02995	0.01669	-0.00316	0.06306
4	0.03665	0.01679	0.00333	0.06996
5	0.04424	0.01728	0.00995	0.07852

```

.
. graph rename Graph ivfi_lcs2, replace

.
. graph close ivfi_lcs*

.
. lpgraph A B C, h(0/5) tti(Horizon) ///
> lab1(`"lcs((c.etot#c.L1lres))"') ///
> lab2(`"lcs(etot+(c.etot#c.L1lres))"') ///
> lab3(`"lcs(L1lres+(c.etot#c.L1lres))"') ///
> lc1(red) lc2(green) lc3(blue) ///
> title(Panel LP for the buffer effect on the RER, ///
> size(3)) separate ///
> zero grname(B2) grsave(B2) as(png)
(file B2.png not found)
file B2.png saved as PNG format
.

```

```
. *** Fig. B.3. Panel LP for the buffer effect on the RER.
```

```
. reg d.lres lreer cny* if count_lgovexp==20, robust
```

```
note: cny33 omitted because of collinearity.
```

```
note: cny39 omitted because of collinearity.
```

```
note: cny47 omitted because of collinearity.
```

```
note: cny56 omitted because of collinearity.
```

```
note: cny58 omitted because of collinearity.
```

```
note: cny64 omitted because of collinearity.
```

```
note: cny72 omitted because of collinearity.
```

```
note: cny102 omitted because of collinearity.
```

```
note: cny103 omitted because of collinearity.
```

```
note: cny108 omitted because of collinearity.
```

```
note: cny110 omitted because of collinearity.
```

```
Linear regression      Number of obs      =      1,900
                        F(100, 1799)          =         0.82
                        Prob > F              =       0.8956
                        R-squared             =       0.0346
                        Root MSE           =       .23539
```

D.lres	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
lreer	-.1984237	.0523173	-3.79	0.000	-.3010328	-.0958146
cny1	.0341988	.0743827	0.46	0.646	-.1116868	.1800844
cny2	.0227806	.0789579	0.29	0.773	-.1320783	.1776396
cny3	.0862455	.1087249	0.79	0.428	-.1269949	.299486
cny4	-.0033427	.089908	-0.04	0.970	-.1796778	.1729925
cny5	.0199762	.0876074	0.23	0.820	-.1518468	.1917993
cny6	-.0015957	.0871946	-0.02	0.985	-.172609	.1694176
cny7	-.016635	.0781487	-0.21	0.831	-.1699068	.1366367
cny8	.0390786	.0823422	0.47	0.635	-.1224178	.200575
cny9	.135783	.0844652	1.61	0.108	-.0298772	.3014431
cny10	.017839	.1112825	0.16	0.873	-.2004176	.2360956
cny11	.0040791	.0769911	0.05	0.958	-.1469222	.1550804
cny12	.0576799	.0911168	0.63	0.527	-.121026	.2363859
cny13	-.02821	.0771414	-0.37	0.715	-.1795062	.1230863
cny14	.0686128	.0794467	0.86	0.388	-.0872048	.2244304
cny15	.0571803	.0771356	0.74	0.459	-.0941046	.2084651
cny16	.0661933	.1061918	0.62	0.533	-.142079	.2744655
cny17	.1321881	.0776482	1.70	0.089	-.020102	.2844783
cny18	.0050976	.0730116	0.07	0.944	-.1380989	.148294
cny19	.0050004	.0773122	0.06	0.948	-.1466307	.1566316
cny20	.0614182	.0756794	0.81	0.417	-.0870105	.2098469
cny21	.0451921	.073488	0.61	0.539	-.0989388	.1893229
cny22	.0575161	.1249323	0.46	0.645	-.1875117	.3025438
cny23	.062885	.0765986	0.82	0.412	-.0873466	.2131166
cny24	.0470152	.0751264	0.63	0.532	-.100329	.1943593
cny25	-.1041822	.1328056	-0.78	0.433	-.3646516	.1562871
cny26	.0807693	.082041	0.98	0.325	-.0801362	.2416749
cny27	.0427145	.0834405	0.51	0.609	-.1209359	.206365
cny28	.0585814	.0928165	0.63	0.528	-.1234581	.2406209
cny29	.0649084	.114994	0.56	0.573	-.1606275	.2904443
cny30	.0360841	.0993997	0.36	0.717	-.1588669	.231035
cny31	.0166079	.0772093	0.22	0.830	-.1348213	.1680372
cny32	-.0090374	.1393094	-0.06	0.948	-.2822626	.2641878
cny33	0	(omitted)				
cny34	-.0041652	.0784712	-0.05	0.958	-.1580694	.149739
cny35	.0173828	.0758252	0.23	0.819	-.1313319	.1660974
cny36	.0143993	.0999137	0.14	0.885	-.1815598	.2103583
cny37	.089977	.0809338	1.11	0.266	-.0687571	.2487112
cny38	-.0094304	.0718328	-0.13	0.896	-.1503148	.131454
cny39	0	(omitted)				
cny40	-.0053361	.0954843	-0.06	0.955	-.1926079	.1819357
cny41	.0720298	.0761838	0.95	0.345	-.0773883	.2214479
cny42	.0476009	.142511	0.33	0.738	-.2319036	.3271055
cny43	.0673794	.0797361	0.85	0.398	-.0890056	.2237645
cny44	.0104455	.0795531	0.13	0.896	-.1455806	.1664716
cny45	.0685402	.0767143	0.89	0.372	-.0819182	.2189987
cny46	-.0002072	.074157	-0.00	0.998	-.1456501	.1452358

cny47	0	(omitted)				
cny48	-.0463363	.0842342	-0.55	0.582	-.2115435	.1188709
cny49	.0856295	.0779853	1.10	0.272	-.0673218	.2385809
cny50	.027117	.0722172	0.38	0.707	-.1145214	.1687554
cny51	.0465404	.0830997	0.56	0.576	-.1164417	.2095224
cny52	.0902747	.074916	1.21	0.228	-.0566568	.2372062
cny53	-.0140174	.0996181	-0.14	0.888	-.2093967	.1813619
cny54	.0415138	.0750329	0.55	0.580	-.1056469	.1886746
cny55	.0064591	.0728487	0.09	0.929	-.1364179	.149336
cny56	0	(omitted)				
cny57	.0414076	.0772789	0.54	0.592	-.1101582	.1929735
cny58	0	(omitted)				
cny59	.0255897	.0985174	0.26	0.795	-.1676307	.2188102
cny60	.1090512	.0822801	1.33	0.185	-.0523234	.2704258
cny61	.0031023	.111926	0.03	0.978	-.2164163	.2226208
cny62	.0379413	.0762323	0.50	0.619	-.1115719	.1874545
cny63	.0687573	.0799872	0.86	0.390	-.0881203	.2256349
cny64	0	(omitted)				
cny65	.0123722	.0757507	0.16	0.870	-.1361964	.1609407
cny66	.114503	.1035194	1.11	0.269	-.0885279	.3175338
cny67	.1043734	.0803612	1.30	0.194	-.0532377	.2619844
cny68	.0482473	.0717803	0.67	0.502	-.0925341	.1890288
cny69	.0666589	.0772036	0.86	0.388	-.0847592	.2180771
cny70	.0855419	.1159292	0.74	0.461	-.141828	.3129118
cny71	.0325032	.0770427	0.42	0.673	-.1185995	.1836058
cny72	0	(omitted)				
cny73	.0690807	.0929086	0.74	0.457	-.1131393	.2513008
cny74	.0593653	.0770629	0.77	0.441	-.0917768	.2105074
cny75	.0056404	.0744823	0.08	0.940	-.1404405	.1517212
cny76	.0128902	.0822201	0.16	0.875	-.1483668	.1741472
cny77	.0830763	.075561	1.10	0.272	-.0651203	.231273
cny78	.0189712	.0942915	0.20	0.841	-.1659611	.2039035
cny79	.0380269	.0752846	0.51	0.614	-.1096275	.1856814
cny80	.0287787	.0753192	0.38	0.702	-.1189437	.176501
cny81	.0666214	.0842357	0.79	0.429	-.0985887	.2318315
cny82	.0351549	.1114616	0.32	0.752	-.1834529	.2537627
cny83	.0721059	.1090006	0.66	0.508	-.1416752	.285887
cny84	.0932954	.0787476	1.18	0.236	-.0611511	.2477418
cny85	.0778623	.0752379	1.03	0.301	-.0697006	.2254252
cny86	.0509745	.0753491	0.68	0.499	-.0968065	.1987555
cny87	.0301432	.0762418	0.40	0.693	-.1193887	.179675
cny88	-.0371987	.0964578	-0.39	0.700	-.2263798	.1519825
cny89	.0173197	.0763786	0.23	0.821	-.1324803	.1671198
cny90	.0559595	.0803776	0.70	0.486	-.1016839	.2136028
cny91	.0479428	.0916891	0.52	0.601	-.1318856	.2277711
cny92	.1352662	.1057918	1.28	0.201	-.0722215	.3427539
cny93	.0688668	.0873043	0.79	0.430	-.1023617	.2400953
cny94	.0530905	.0751748	0.71	0.480	-.0943485	.2005295
cny95	-.0126347	.1506055	-0.08	0.933	-.3080148	.2827454
cny96	-.089377	.1219078	-0.73	0.464	-.3284726	.1497187
cny97	.0601625	.0756193	0.80	0.426	-.0881484	.2084734
cny98	.0125421	.0851162	0.15	0.883	-.1543949	.1794791
cny99	.0146498	.0855652	0.17	0.864	-.1531679	.1824675
cny100	.0282557	.0780037	0.36	0.717	-.1247316	.181243
cny101	.0524269	.0737902	0.71	0.477	-.0922966	.1971503
cny102	0	(omitted)				
cny103	0	(omitted)				
cny104	-.0283249	.0762218	-0.37	0.710	-.1778175	.1211677
cny105	.0244942	.0986359	0.25	0.804	-.1689586	.2179471
cny106	.0214347	.0715442	0.30	0.765	-.1188838	.1617531
cny107	.0315508	.072616	0.43	0.664	-.1108697	.1739714
cny108	0	(omitted)				
cny109	.1094414	.0917252	1.19	0.233	-.0704577	.2893406
cny110	0	(omitted)				
_cons	.8988612	.2347035	3.83	0.000	.4385412	1.359181

```
. capture drop residuals_lres
```

```
. predict residuals_lres, residuals
(110 missing values generated)
```

```
.
. reg d.etot lreer cny* if count_lgovexp==20, robust
note: cny33 omitted because of collinearity.
note: cny39 omitted because of collinearity.
note: cny47 omitted because of collinearity.
note: cny56 omitted because of collinearity.
note: cny58 omitted because of collinearity.
note: cny64 omitted because of collinearity.
note: cny72 omitted because of collinearity.
note: cny102 omitted because of collinearity.
note: cny103 omitted because of collinearity.
note: cny108 omitted because of collinearity.
note: cny110 omitted because of collinearity.
```

```
Linear regression               Number of obs   =       1,900
                               F(100, 1799)       =        0.84
                               Prob > F         =       0.8768
                               R-squared         =       0.0180
                               Root MSE      =       .52975
```

D.etot	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
lreer	-.024562	.1030966	-0.24	0.812	-.2267636	.1776395
cny1	-.0175457	.1488357	-0.12	0.906	-.3094548	.2743634
cny2	-.3244918	.2138755	-1.52	0.129	-.7439623	.0949787
cny3	-.1131222	.2521648	-0.45	0.654	-.6076888	.3814444
cny4	-.1405474	.2093883	-0.67	0.502	-.5512173	.2701224
cny5	-.0727435	.1827699	-0.40	0.691	-.4312072	.2857202
cny6	-.1076451	.1328252	-0.81	0.418	-.3681531	.1528629
cny7	-.1310072	.1204268	-1.09	0.277	-.3671982	.1051839
cny8	-.1852336	.2575721	-0.72	0.472	-.6904054	.3199383
cny9	-.1402819	.1336297	-1.05	0.294	-.4023676	.1218038
cny10	-.1442538	.1416243	-1.02	0.309	-.4220192	.1335116
cny11	-.1388043	.1202121	-1.15	0.248	-.3745744	.0969658
cny12	-.0839307	.1732419	-0.48	0.628	-.4237073	.2558458
cny13	-.2814113	.2003443	-1.40	0.160	-.6743433	.1115206
cny14	-.1033687	.1331881	-0.78	0.438	-.3645884	.157851
cny15	-.0834675	.1317345	-0.63	0.526	-.3418362	.1749011
cny16	-.2038081	.2194337	-0.93	0.353	-.6341798	.2265636
cny17	-.0833038	.1518125	-0.55	0.583	-.3810512	.2144435
cny18	-.1748513	.1205391	-1.45	0.147	-.4112625	.06156
cny19	-.1070721	.162901	-0.66	0.511	-.4265671	.2124229
cny20	-.1120135	.1293567	-0.87	0.387	-.3657187	.1416916
cny21	-.1829621	.13233	-1.38	0.167	-.4424988	.0765746
cny22	-.020731	.2269689	-0.09	0.927	-.4658815	.4244194
cny23	-.1195037	.1504337	-0.79	0.427	-.4145467	.1755394
cny24	-.0920863	.1302413	-0.71	0.480	-.3475264	.1633538
cny25	-.0561859	.2142926	-0.26	0.793	-.4764745	.3641028
cny26	-.0912514	.1213422	-0.75	0.452	-.3292378	.146735
cny27	-.1435412	.121055	-1.19	0.236	-.3809645	.0938821
cny28	-.1378347	.1460147	-0.94	0.345	-.4242109	.1485415
cny29	-.0883884	.1387108	-0.64	0.524	-.3604396	.1836628
cny30	-.1009202	.1596959	-0.63	0.527	-.4141292	.2122888
cny31	-.1660813	.1255295	-1.32	0.186	-.4122803	.0801177
cny32	-.0896651	.1303799	-0.69	0.492	-.345377	.1660468
cny33	0 (omitted)					
cny34	-.1964339	.1220074	-1.61	0.108	-.435725	.0428573
cny35	-.1669777	.1195835	-1.40	0.163	-.4015148	.0675595
cny36	-.0912859	.5104187	-0.18	0.858	-1.092362	.90979
cny37	-.142738	.1632968	-0.87	0.382	-.4630093	.1775332
cny38	-.1371655	.1198027	-1.14	0.252	-.3721327	.0978016
cny39	0 (omitted)					
cny40	-.0287201	.1418864	-0.20	0.840	-.3069997	.2495594
cny41	-.0705554	.1362012	-0.52	0.605	-.3376846	.1965737
cny42	-.0692735	.2771508	-0.25	0.803	-.6128448	.4742977
cny43	-.1533719	.1347672	-1.14	0.255	-.4176887	.1109448

cny44	- .1067257	.1196842	-0.89	0.373	- .3414604	.128009
cny45	- .1583968	.1305532	-1.21	0.225	- .4144487	.0976551
cny46	- .1807513	.1418768	-1.27	0.203	- .4590119	.0975092
cny47	0	(omitted)				
cny48	- .111912	.1446084	-0.77	0.439	- .3955302	.1717061
cny49	- .1586205	.1309936	-1.21	0.226	- .4155362	.0982951
cny50	- .1159376	.1216215	-0.95	0.341	- .3544718	.1225967
cny51	- .2042954	.1549911	-1.32	0.188	- .5082769	.099686
cny52	- .156884	.1303282	-1.20	0.229	- .4124944	.0987265
cny53	- .1455907	.174843	-0.83	0.405	- .4885075	.197326
cny54	- .2001125	.1388768	-1.44	0.150	- .4724894	.0722644
cny55	- .1357049	.1257633	-1.08	0.281	- .3823623	.1109525
cny56	0	(omitted)				
cny57	- .2594356	.1950314	-1.33	0.184	- .6419476	.1230763
cny58	0	(omitted)				
cny59	- .042786	.1340468	-0.32	0.750	- .3056898	.2201178
cny60	.0129939	.166064	0.08	0.938	- .3127047	.3386925
cny61	- .0649284	.1284671	-0.51	0.613	- .3168887	.187032
cny62	- .18687	.1275612	-1.46	0.143	- .4370536	.0633137
cny63	- .1851079	.1733655	-1.07	0.286	- .5251267	.1549109
cny64	0	(omitted)				
cny65	- .1305262	.1240133	-1.05	0.293	- .3737515	.112699
cny66	- .0771165	.3119818	-0.25	0.805	- .6890012	.5347682
cny67	- .2665588	.135747	-1.96	0.050	- .5327971	- .0003205
cny68	- .1116112	.1188467	-0.94	0.348	- .3447033	.121481
cny69	- .2000008	.1512631	-1.32	0.186	- .4966707	.0966691
cny70	- .0147741	.2002795	-0.07	0.941	- .407579	.3780309
cny71	- .1459391	.1337239	-1.09	0.275	- .4082097	.1163314
cny72	0	(omitted)				
cny73	- .1225101	.166317	-0.74	0.461	- .4487048	.2036847
cny74	- .4177943	.1591637	-2.62	0.009	- .7299595	- .1056291
cny75	- .1325948	.1190882	-1.11	0.266	- .3661606	.100971
cny76	- .1368532	.1253542	-1.09	0.275	- .3827084	.1090019
cny77	- .0461212	.1403555	-0.33	0.742	- .3213982	.2291557
cny78	- .2413552	.1944986	-1.24	0.215	- .6228221	.1401117
cny79	- .1110474	.1358648	-0.82	0.414	- .3775169	.1554221
cny80	- .2381293	.1395741	-1.71	0.088	- .5118736	.035615
cny81	- .1741819	.200235	-0.87	0.384	- .5668994	.2185356
cny82	- .2263588	.1372407	-1.65	0.099	- .4955267	.0428091
cny83	.0011559	.2844246	0.00	0.997	- .5566814	.5589932
cny84	- .1822805	.1798839	-1.01	0.311	- .5350838	.1705228
cny85	- .1013558	.1501193	-0.68	0.500	- .3957823	.1930707
cny86	- .1821234	.1422053	-1.28	0.200	- .4610282	.0967815
cny87	- .0553239	.1218979	-0.45	0.650	- .2944002	.1837523
cny88	- .08785	.1252697	-0.70	0.483	- .3335393	.1578393
cny89	- .1335673	.1312146	-1.02	0.309	- .3909164	.1237817
cny90	- .1888771	.1348904	-1.40	0.162	- .4534354	.0756813
cny91	- .0257791	.1685556	-0.15	0.878	- .3563645	.3048062
cny92	- .2270831	.2093272	-1.08	0.278	- .6376331	.1834669
cny93	- .0218998	.4531244	-0.05	0.961	- .9106053	.8668057
cny94	- .1221603	.1306323	-0.94	0.350	- .3783672	.1340466
cny95	- .0969333	.1236108	-0.78	0.433	- .3393692	.1455026
cny96	- .1020105	.1214656	-0.84	0.401	- .340239	.136218
cny97	- .1410451	.1339373	-1.05	0.292	- .4037341	.1216439
cny98	- .0975616	.1244571	-0.78	0.433	- .3416572	.146534
cny99	- .1742534	.1436441	-1.21	0.225	- .4559803	.1074734
cny100	- .1669274	.1196129	-1.40	0.163	- .4015223	.0676676
cny101	- .1229359	.1378957	-0.89	0.373	- .3933883	.1475166
cny102	0	(omitted)				
cny103	0	(omitted)				
cny104	- .1333311	.1344237	-0.99	0.321	- .3969742	.130312
cny105	- .1651606	.1396349	-1.18	0.237	- .4390243	.108703
cny106	- .1796649	.1304888	-1.38	0.169	- .4355904	.0762606
cny107	- .141147	.1232655	-1.15	0.252	- .3829056	.1006116
cny108	0	(omitted)				
cny109	- .0961714	.1372304	-0.70	0.484	- .3653191	.1729763
cny110	0	(omitted)				
_cons	.2507098	.464836	0.54	0.590	- .6609653	1.162385

```
. capture drop residuals_etot
```

```
. predict residuals_etot, residuals
(110 missing values generated)
```

```
.
. locproj lreer (c.residuals_etot#c.residuals_lres) ///
> if count_lgovexp==20, ///
> c(l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr) ///
> z h(4) yl(1) sl(1) fe cluster(cn) conf(90 95) ///
> title("`Full sample") tti("Horizon") ///
> save irfname(full) noisily stats
lreer_h(0)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0204671	.0118289	-1.73	0.084	-.0436514	.0027172
cL.residuals_etot# cL.residuals_lres	-.0151907	.011887	-1.28	0.201	-.0384888	.0081073
lreer l1.	.840683	.0198125	42.43	0.000	.8018511	.8795148
lgdppk_m100 l1.	.0920574	.0506284	1.82	0.069	-.0071725	.1912872
lgovexp l1.	.0000579	.0206511	0.00	0.998	-.0404175	.0405333
irr l1.	-.0052564	.0016504	-3.19	0.001	-.0084911	-.0020218
_cons	.3520183	.205493	1.71	0.087	-.0507405	.7547771

```
lreer_h(1)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0369296	.0120075	-3.08	0.002	-.0604638	-.0133955
cL.residuals_etot# cL.residuals_lres	-.0189857	.0167136	-1.14	0.256	-.0517437	.0137722
lreer l1.	.640929	.0362591	17.68	0.000	.5698624	.7119955
lgdppk_m100 l1.	.1457049	.0793481	1.84	0.066	-.0098146	.3012243
lgovexp l1.	.0086288	.0351856	0.25	0.806	-.0603338	.0775914
irr l1.	-.0065072	.0023905	-2.72	0.006	-.0111925	-.0018218
_cons	1.022021	.33769	3.03	0.002	.360161	1.683882

```
lreer_h(2)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0361766	.0147264	-2.46	0.014	-.0650398	-.0073134
cL.residuals_etot# cL.residuals_lres	-.0279557	.0201718	-1.39	0.166	-.0674916	.0115802
lreer l1.	.4642552	.0448412	10.35	0.000	.3763681	.5521423

lgdppk_m100 L1.	.1355863	.1009822	1.34	0.179	-.0623351	.3335077
lgovexp L1.	.0093386	.0448073	0.21	0.835	-.0784821	.0971594
irr L1.	-.0083113	.002912	-2.85	0.004	-.0140188	-.0026039
_cons	1.9062	.4429772	4.30	0.000	1.037981	2.77442

lreer_h(3)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0446566	.0165104	-2.70	0.007	-.0770163	-.0122969
cL.residuals_etot# cL.residuals_lres	-.0288545	.0228189	-1.26	0.206	-.0735787	.0158698
lreer L1.	.322968	.0482453	6.69	0.000	.2284091	.417527
lgdppk_m100 L1.	.0959266	.1151368	0.83	0.405	-.1297373	.3215905
lgovexp L1.	.0185793	.0499484	0.37	0.710	-.0793178	.1164764
irr L1.	-.0101772	.0033361	-3.05	0.002	-.0167159	-.0036385
_cons	2.739763	.5322657	5.15	0.000	1.696541	3.782985

lreer_h(4)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0427687	.0171719	-2.49	0.013	-.076425	-.0091124
cL.residuals_etot# cL.residuals_lres	-.0263869	.0170827	-1.54	0.122	-.0598685	.0070946
lreer L1.	.1875598	.0524688	3.57	0.000	.0847227	.2903968
lgdppk_m100 L1.	.0658172	.1289597	0.51	0.610	-.1869391	.3185735
lgovexp L1.	.020703	.0515679	0.40	0.688	-.0803682	.1217743
irr L1.	-.0109478	.0035904	-3.05	0.002	-.0179849	-.0039106
_cons	3.511656	.6160826	5.70	0.000	2.304156	4.719155

Statistics by step

	N	R2	psR2	F	Chi2	Prob
0	1795	0.751	.	599.85	.	0.000
1	1697	0.496	.	89.10	.	0.000
2	1598	0.313	.	30.15	.	0.000
3	1499	0.193	.	12.58	.	0.000
4	1400	0.100	.	5.16	.	0.000

Impulse Response Function

	IRF	Std.Err.	IRF LO~90	IRF UP 90	IRF LO~95	IRF UP 95
0	-0.02047	0.01183	-0.04011	-0.00083	-0.04394	0.00300
1	-0.03693	0.01201	-0.05687	-0.01699	-0.06076	-0.01310
2	-0.03618	0.01473	-0.06063	-0.01173	-0.06540	-0.00696
3	-0.04466	0.01651	-0.07207	-0.01724	-0.07742	-0.01190
4	-0.04277	0.01717	-0.07128	-0.01426	-0.07684	-0.00870

```
.
. graph rename Graph fullfi, replace

.
. locproj lreer (c.residuals_etot#c.residuals_lres) if l2.fi<0.48 ///
> & count_lgovexp=20, ///
> c(l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr) ///
> z h(4) yl(1) sl(1) fe cluster(cn) conf(90 95) ///
> title("Below the threshold for FI") tti("Horizon") ///
> save irfname(below) noisily stats
lreer_h(0)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0223886	.0119078	-1.88	0.060	-.0457274	.0009502
cL.residuals_etot# cL.residuals_lres	-.012976	.0122661	-1.06	0.290	-.0370172	.0110651
lreer l1.	.8525543	.020247	42.11	0.000	.8128709	.8922377
lgdppk_m100 l1.	.0724827	.0669622	1.08	0.279	-.0587609	.2037262
lgovexp l1.	.0014081	.0217248	0.06	0.948	-.0411718	.0439879
irr l1.	-.007256	.0017845	-4.07	0.000	-.0107536	-.0037584
_cons	.4240161	.2701239	1.57	0.116	-.105417	.9534492

```
lreer_h(1)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0370307	.0131006	-2.83	0.005	-.0627074	-.011354
cL.residuals_etot# cL.residuals_lres	-.0175604	.0168526	-1.04	0.297	-.0505909	.01547
lreer l1.	.6834612	.0448917	15.22	0.000	.5954751	.7714473
lgdppk_m100 l1.	.0572473	.1317494	0.43	0.664	-.2009767	.3154712
lgovexp l1.	.0139427	.0368297	0.38	0.705	-.058242	.0861275
irr l1.	-.008295	.0029798	-2.78	0.005	-.0141353	-.0024547
_cons	1.264758	.5048147	2.51	0.012	.2753393	2.254176

```
lreer_h(2)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0372021	.0147129	-2.53	0.011	-.0660389	-.0083652

cL.residuals_etot# cL.residuals_lres	-.027748	.0194875	-1.42	0.154	-.0659427	.0104467
lreer L1.	.5278718	.0552205	9.56	0.000	.4196416	.636102
lgdppk_m100 L1.	-.0058083	.1636604	-0.04	0.972	-.3265768	.3149603
lgovexp L1.	.0137615	.0466863	0.29	0.768	-.0777421	.105265
irr L1.	-.010097	.003675	-2.75	0.006	-.0172999	-.0028941
_cons	2.289363	.6441204	3.55	0.000	1.02691	3.551816

lreer_h(3)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.048394	.0145929	-3.32	0.001	-.0769956	-.0197924
cL.residuals_etot# cL.residuals_lres	-.0318758	.021696	-1.47	0.142	-.0743992	.0106477
lreer L1.	.4054974	.0584708	6.94	0.000	.2908969	.520098
lgdppk_m100 L1.	-.1196449	.1838359	-0.65	0.515	-.4799566	.2406668
lgovexp L1.	.0216692	.0507098	0.43	0.669	-.0777202	.1210586
irr L1.	-.0117489	.0041226	-2.85	0.004	-.019829	-.0036688
_cons	3.358264	.7566534	4.44	0.000	1.87525	4.841277

lreer_h(4)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0494258	.0149431	-3.31	0.001	-.0787138	-.0201377
cL.residuals_etot# cL.residuals_lres	-.0287924	.0155017	-1.86	0.063	-.0591751	.0015904
lreer L1.	.2739375	.0664257	4.12	0.000	.1437455	.4041294
lgdppk_m100 L1.	-.1981276	.202517	-0.98	0.328	-.5950535	.1987983
lgovexp L1.	.023721	.0514354	0.46	0.645	-.0770906	.1245326
irr L1.	-.0132299	.0042449	-3.12	0.002	-.0215498	-.00491
_cons	4.327201	.83987	5.15	0.000	2.681086	5.973316

Statistics by step

	N	R2	psR2	F	Chi2	Prob
0	1071	0.772	.	516.50	.	0.000
1	1021	0.521	.	75.35	.	0.000
2	972	0.355	.	30.35	.	0.000
3	923	0.242	.	15.05	.	0.000
4	871	0.149	.	7.33	.	0.000

Impulse Response Function

	IRF	Std.Err.	IRF LO~90	IRF UP 90	IRF LO~95	IRF UP 95
0	-0.02239	0.01191	-0.04223	-0.00254	-0.04613	0.00135
1	-0.03703	0.01310	-0.05887	-0.01519	-0.06316	-0.01090
2	-0.03720	0.01471	-0.06173	-0.01268	-0.06655	-0.00786
3	-0.04839	0.01459	-0.07272	-0.02407	-0.07750	-0.01929
4	-0.04943	0.01494	-0.07433	-0.02452	-0.07923	-0.01962

```
.
. graph rename Graph belowfi, replace
.
. locproj lreer (c.residuals_etot#c.residuals_lres) if l2.fi>=0.48 ///
> & count_lgovexp==20, ///
> c(l(1).lgdppk_m100 ///
> l(1).lgovexp l(1).irr) ///
> z h(4) yl(1) sl(1) fe cluster(cn) conf(90 95) ///
> title("`Above the threshold for FI'") tti("Horizon") ///
> save irfname(above) noisily stats
lreer_h(0)
```

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0400714	.026968	-1.49	0.137	-.0929277	.0127849
cL.residuals_etot# cL.residuals_lres	-.0563712	.0268221	-2.10	0.036	-.1089415	-.0038009
lreer l1.	.7228604	.0345025	20.95	0.000	.6552368	.790484
lgdppk_m100 l1.	.151643	.0405939	3.74	0.000	.0720805	.2312056
lgovexp l1.	-.094427	.0441647	-2.14	0.033	-.1809883	-.0078657
irr l1.	.0008898	.0015473	0.58	0.565	-.0021429	.0039225
_cons	.7852854	.3161279	2.48	0.013	.1656862	1.404885

lreer_h(1)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0711322	.033973	-2.09	0.036	-.137718	-.0045463
cL.residuals_etot# cL.residuals_lres	-.0562839	.0291956	-1.93	0.054	-.1135062	.0009384
lreer l1.	.4329459	.0566241	7.65	0.000	.3219648	.5439271
lgdppk_m100 l1.	.2076266	.0672003	3.09	0.002	.0759164	.3393368
lgovexp l1.	-.135505	.0705935	-1.92	0.055	-.2738656	.0028557
irr						

L1.	.0011446	.0018312	0.63	0.532	-.0024445	.0047336
_cons	1.957128	.5020512	3.90	0.000	.9731261	2.941131

lreer_h(2)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.0634208	.0323372	-1.96	0.050	-.1268006	-.000041
cL.residuals_etot# cL.residuals_lres	-.0323842	.0337838	-0.96	0.338	-.0985993	.0338309
lreer L1.	.2107858	.0627754	3.36	0.001	.0877484	.3338233
lgdppk_m100 L1.	.2017804	.0870863	2.32	0.021	.0310945	.3724663
lgovexp L1.	-.1722233	.0850675	-2.02	0.043	-.3389526	-.005494
irr L1.	.000105	.0018306	0.06	0.954	-.0034828	.0036928
_cons	3.124228	.6232448	5.01	0.000	1.902691	4.345765

lreer_h(3)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	-.033314	.0372535	-0.89	0.371	-.1063295	.0397016
cL.residuals_etot# cL.residuals_lres	.0239366	.0308045	0.78	0.437	-.0364392	.0843124
lreer L1.	.0816988	.0530651	1.54	0.124	-.0223069	.1857044
lgdppk_m100 L1.	.1893853	.1010919	1.87	0.061	-.0087513	.3875219
lgovexp L1.	-.2060083	.0919374	-2.24	0.025	-.3862022	-.0258144
irr L1.	-.0011017	.0017802	-0.62	0.536	-.0045909	.0023874
_cons	3.886657	.6982854	5.57	0.000	2.518043	5.255271

lreer_h(4)

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
c.residuals_etot# c.residuals_lres	.00454	.0309331	0.15	0.883	-.0560877	.0651677
cL.residuals_etot# cL.residuals_lres	.0138602	.0322825	0.43	0.668	-.0494124	.0771328
lreer L1.	.0061518	.0498919	0.12	0.902	-.0916344	.1039381
lgdppk_m100 L1.	.1971588	.1085054	1.82	0.069	-.0155078	.4098254
lgovexp L1.	-.2270206	.0980655	-2.31	0.021	-.4192255	-.0348157
irr L1.	-.0005618	.0019465	-0.29	0.773	-.0043769	.0032533

_cons	4.249995	.7268712	5.85	0.000	2.825353	5.674636
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Statistics by step

	N	R2	psR2	F	Chi2	Prob
0	724	0.613	.	88.79	.	0.000
1	676	0.281	.	19.28	.	0.000
2	626	0.129	.	8.47	.	0.000
3	576	0.091	.	4.84	.	0.001
4	529	0.095	.	2.73	.	0.023

Impulse Response Function

	IRF	Std.Err.	IRF LO~90	IRF UP 90	IRF LO~95	IRF UP 95
0	-0.04007	0.02697	-0.08519	0.00505	-0.09412	0.01397
1	-0.07113	0.03397	-0.12799	-0.01428	-0.13924	-0.00302
2	-0.06342	0.03234	-0.11754	-0.00930	-0.12825	0.00141
3	-0.03331	0.03725	-0.09572	0.02910	-0.10810	0.04148
4	0.00454	0.03093	-0.04732	0.05640	-0.05762	0.06670

```

.
. graph rename Graph abovefi, replace

.
. graph close fullfi belowfi abovefi

.
. graph combine fullfi belowfi abovefi, row(1) ///
> title(`"Panel LP for the Buffer Effect on the RER"', size(4)) ///
> subtitle(`"Term-of-trade shock"' ///
> `(shock on c.residuals_etot#c.residuals_lres)"', size(3)) ///
> name(B3, replace)

.
. graph export "PANEL_LP_RES.png", as(png) name("B3") replace
(file PANEL_LP_RES.png not found)
file PANEL_LP_RES.png saved as PNG format

.
. log close _all
    name: RERTOT_JIMF_VIMM
    log: C:\Users\jame1\Dropbox\Documents\CONFERENCES\2025-09-09-VIMM\stata\JIMF\RERTOT_JIMF_VIMM.smcl
    log type: smcl
closed on: 3 Sep 2025, 20:17:39

```