

Supporting Information

The code and simulated values are listed as follows.

1. Private Sub Simulation() 'visual basic
2. For i = 1 To 5000
 - Range("q8") = i
 - Range("O7:Q7").Copy 'copy tree variables: Calculated Y2, Y2, and scaling error.
 - Range("O10").Offset(i - 1, 0).PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _ 'list all calculations (total 5000 times)
 - :=False, Transpose:=False 'condition
3. Next i
4. End Sub

No.	Y2	Y1	Scaling error
1	42632.5	41099.9	0.039362615
2	47877.5	46561.9	0.028774569
3	47254.9	45738.3	0.031536366
4	43155.3	41163.8	0.040862365
5	45980.6	44478.8	0.029539199
6	49383.9	47949.4	0.028077085
7	48433.4	47029.8	0.027045185
8	44795.5	43193.8	0.034874801
9	42730.6	40856.2	0.041716688
10	46367.1	44650.0	0.032726139
11	47057.5	45242.2	0.03546865
12	44719.2	43212.1	0.033613237
13	46218.0	44629.5	0.03227872
14	47193.7	45995.2	0.027573452
15	46757.8	45211.4	0.031665904
16	49639.2	48461.0	0.024795665
17	46080.5	44279.3	0.039588616
18	42550.9	41092.7	0.038810246
19	48443.0	47022.5	0.026023798
20	47371.7	45892.6	0.031165336
21	48450.7	46602.9	0.034258494
22	46662.1	45253.2	0.030234378
23	45488.8	44029.8	0.031748824
24	45147.4	43699.1	0.032006521
25	46772.0	45342.9	0.03220509
26	46257.1	44968.5	0.031393215
27	48212.8	46714.9	0.031124265

28	47105.9	45630.9	0.029601118
29	49656.3	48220.5	0.029095659
30	46818.2	45361.3	0.031498625
31	47341.3	45680.7	0.03303005
32	45824.5	44227.9	0.034344873
33	45470.4	43815.0	0.034748277
34	46615.8	44685.2	0.040105778
35	45538.6	43816.4	0.03590975
36	50525.1	49486.0	0.022249669
37	45260.2	43427.8	0.040235181
38	46239.6	44652.1	0.033768835
39	47788.6	46136.8	0.032949894
40	45833.6	44352.3	0.031729768
41	48947.0	47741.9	0.024419018
42	49611.8	48075.7	0.031578652
43	45287.6	43904.8	0.030361202
44	45907.7	44098.6	0.036513875
45	47831.9	46152.9	0.032166358
46	46025.1	44115.8	0.03644679
47	46960.6	45589.4	0.03102242
48	46919.5	45495.1	0.030446221
49	50628.6	49341.0	0.025988914
50	48545.0	47025.8	0.028928365
51	47816.0	46430.5	0.028458656
52	46651.4	45212.8	0.030662556
53	46214.4	44755.0	0.029623693
54	48748.9	47471.6	0.025216627
55	49225.6	47489.2	0.032864401
56	46679.7	45182.9	0.0306954
57	46704.8	45089.9	0.032567657
58	47978.1	46567.9	0.02938065
59	44983.3	43490.6	0.031669577
60	48763.9	47450.9	0.027170161
61	47268.4	45809.5	0.031010037
62	49115.2	47738.3	0.028301828
63	45300.7	43811.8	0.033641367
64	41949.4	40491.8	0.03802016
65	43692.1	42221.8	0.034798086
66	46084.6	44737.4	0.030926364
67	46392.2	44689.2	0.032619157
68	45597.3	43973.5	0.036561374
69	44688.9	43170.7	0.035673035
70	42860.3	40942.0	0.040492738
71	48035.8	46736.6	0.026640882

72	45538.0	43979.7	0.035210836
73	47435.8	45599.9	0.038302942
74	47067.6	45249.2	0.034610978
75	44069.7	42411.7	0.037663826
76	46051.3	44588.3	0.029359588
77	45923.5	44073.9	0.036620153
78	47855.0	46021.5	0.037234209
79	46021.0	44470.5	0.035554523
80	47744.5	46178.6	0.031714459
81	46106.8	44728.6	0.02946058
82	44875.3	43348.7	0.032557873
83	47159.7	45314.5	0.036967676
84	48053.2	46541.6	0.034359585
85	44548.7	42647.1	0.042220094
86	45643.8	43907.4	0.037072568
87	46958.9	45018.7	0.037822106
88	42809.1	41402.5	0.035383385
89	45612.2	43525.9	0.038939193
90	47888.1	46205.8	0.032149861
91	47631.1	46069.3	0.031278494
92	45644.3	43722.2	0.040941694
93	45661.8	44172.3	0.029849563
94	47015.6	45823.8	0.026578452
95	46149.1	44173.1	0.040329707
96	46604.6	44974.4	0.033582316
97	47026.6	45464.9	0.032792112
98	46713.2	45367.1	0.030546417
99	46156.1	44590.2	0.032243522
100	42473.0	41059.4	0.035503845
101	46374.2	44588.3	0.032238188
102	47597.3	45787.1	0.033422722
103	46759.3	45145.6	0.033983115
104	47820.0	46546.0	0.026935846
105	44557.8	42952.7	0.034820076
106	48158.8	46741.6	0.027335417
107	44197.5	42931.5	0.032487801
108	46633.6	45308.0	0.027228798
109	43161.6	41651.2	0.037080929
110	44501.8	42823.1	0.03908216
111	45569.3	43962.1	0.03332137
112	48693.0	46988.9	0.034662355
113	41957.2	39972.6	0.047058292
114	45492.3	44156.5	0.030283403
115	45239.5	43696.5	0.033766278

116	47959.7	46470.2	0.030481246
117	46771.2	45387.4	0.030063628
118	48420.5	46999.0	0.028434924
119	47445.1	46046.9	0.028380476
120	44069.7	42221.9	0.036485138
121	45551.0	43813.7	0.035747609
122	44803.3	43465.2	0.03093734
123	45537.6	43975.9	0.034138463
124	48703.8	47102.0	0.029906098
125	44706.2	43474.6	0.031058985
126	46083.2	44732.3	0.031334962
127	45561.1	43713.9	0.037887456
128	45051.2	43126.4	0.038858163
129	45642.9	43765.4	0.038435627
130	46210.2	44444.2	0.034263239
131	49605.8	48065.3	0.030769833
132	42609.1	40822.9	0.040552945
133	47406.7	45828.2	0.030820867
134	45649.6	44199.9	0.031302701
135	43176.5	41547.4	0.039153256
136	44457.5	42845.1	0.035178423
137	47283.3	45664.7	0.030852711
138	46642.7	45169.1	0.030768276
139	43066.8	41529.7	0.039128235
140	45402.9	43534.0	0.039489939
141	47451.9	45892.3	0.028799352
142	46551.5	44822.4	0.034250749
143	44198.1	42673.0	0.03437419
144	45110.9	43368.6	0.03547202
145	46881.6	44976.9	0.037441872
146	44452.2	43115.3	0.032476193
147	45902.7	44179.9	0.035503565
148	44555.0	42765.1	0.036800913
149	46514.8	45160.4	0.029122724
150	46443.2	45147.9	0.031578121
151	45300.6	43498.6	0.037085044
152	41873.4	40127.8	0.042225219
153	44679.5	43170.4	0.038780482
154	43840.9	41814.1	0.040984954
155	46135.7	44508.6	0.034714276
156	44754.8	43360.4	0.034506148
157	44898.7	43309.3	0.033357099
158	46138.0	44176.8	0.035441989
159	45986.4	44210.4	0.035650781

160 46303.8	44911.1	0.028919832
161 45451.1	43926.8	0.031968776
162 46163.0	44851.7	0.02948007
163 47345.9	46121.4	0.026478338
164 48839.1	47274.2	0.029269292
165 44304.0	42712.1	0.037948046
166 47421.3	45622.4	0.036675284
167 47246.3	45712.5	0.030524659
168 45857.0	44286.5	0.032360725
169 44144.0	42572.7	0.034224228
170 45437.4	43859.3	0.031621716
171 45723.7	44125.3	0.035308114
172 46340.0	44921.7	0.033745287
173 47588.4	46316.2	0.029761106
174 45219.0	43554.1	0.034514274
175 45984.6	44227.5	0.036923444
176 46635.5	44849.1	0.03581013
177 47033.1	45352.3	0.033025771
178 46192.2	44264.0	0.038390897
179 48078.1	46722.3	0.029300378
180 47032.6	45185.2	0.038334185
181 45299.5	43868.5	0.034121613
182 48229.0	46959.8	0.028804283
183 46743.0	45326.2	0.02794736
184 44370.9	42681.1	0.035237676
185 43595.8	41941.0	0.040847816
186 47207.9	45618.2	0.032388672
187 42319.5	40615.4	0.039449301
188 44951.7	43504.5	0.033757432
189 43456.2	41539.1	0.038814502
190 47949.7	46456.7	0.030869631
191 49916.6	48619.1	0.028430529
192 42709.9	41265.1	0.036170262
193 45519.7	44090.7	0.034421698
194 46024.4	44610.1	0.032843196
195 48402.8	46707.9	0.032765869
196 45989.3	44135.8	0.036384505
197 44028.7	42499.1	0.034431054
198 46624.0	45082.9	0.030318805
199 44550.1	42882.7	0.038520625
200 45174.8	43734.3	0.029564541
201 47184.9	45795.9	0.029053666
202 45168.7	43803.8	0.030675808
203 47681.5	46075.4	0.032055617

204 49716.1	48499.2	0.027691339
205 46332.9	44787.8	0.034801523
206 48638.8	47082.6	0.029273217
207 47816.2	46183.4	0.031270776
208 47183.0	45412.2	0.032132516
209 48804.1	47290.6	0.029327549
210 43875.4	42157.1	0.03490068
211 47320.4	45561.4	0.032583915
212 47986.3	46221.0	0.03256286
213 48395.6	47038.7	0.028289273
214 43219.5	41663.9	0.034931979
215 45227.5	43411.1	0.036914981
216 44959.5	43378.8	0.034361941
217 47704.6	46216.1	0.029982174
218 48031.1	46433.6	0.032167628
219 44818.1	43095.3	0.03793074
220 44811.3	43199.1	0.036709907
221 46991.1	45418.4	0.033026221
222 46030.6	44303.4	0.03279344
223 47210.8	45499.1	0.033594555
224 45584.3	44407.1	0.031306155
225 46735.4	44941.3	0.033808271
226 43534.5	41912.7	0.035913227
227 45674.1	44276.0	0.028590898
228 49716.3	48493.6	0.024864247
229 45280.7	43684.0	0.034989395
230 49137.0	47859.1	0.02692058
231 47526.6	45675.7	0.032181791
232 49091.9	47733.6	0.026557884
233 46645.1	44776.1	0.037090083
234 47366.5	45888.2	0.030791096
235 47272.1	45680.1	0.032202384
236 48937.0	47457.6	0.028572334
237 44298.4	42525.0	0.041142956
238 43533.7	42006.1	0.037888862
239 48134.0	46473.5	0.030635648
240 44703.0	43015.0	0.036181855
241 42467.0	41075.4	0.03845509
242 47740.7	46012.5	0.031420133
243 46485.4	44641.2	0.035781398
244 45641.1	44077.0	0.035069173
245 46116.2	44415.5	0.034197182
246 46411.2	45075.7	0.028939893
247 45814.4	44079.5	0.034067362

248 45226.7	43733.6	0.03578099
249 47325.7	45728.5	0.032939037
250 49494.6	48072.4	0.027689032
251 47288.9	45584.1	0.03725126
252 48142.7	46581.9	0.031751615
253 48301.5	46870.9	0.029059958
254 45407.8	43958.0	0.030759429
255 49242.5	47624.4	0.028371838
256 44787.7	43367.5	0.032941704
257 44487.5	42842.0	0.036752814
258 43457.5	41621.2	0.043905428
259 43734.2	42286.4	0.038701274
260 45705.7	44164.5	0.034071054
261 45977.2	44516.6	0.031359615
262 47766.0	46381.0	0.029106038
263 47251.7	45716.1	0.033038326
264 44572.2	43078.8	0.033784543
265 43872.1	42229.2	0.035840424
266 44887.6	43135.6	0.040551708
267 45073.2	43500.0	0.03649938
268 42810.3	41333.7	0.036153517
269 46447.4	44681.4	0.034175788
270 49651.2	48413.9	0.025857873
271 45650.6	44069.5	0.033445193
272 49718.9	48219.2	0.026689703
273 46878.9	45184.4	0.035736855
274 47003.0	45519.2	0.032581151
275 47252.1	45447.9	0.031058563
276 47023.0	45415.5	0.036984559
277 48102.1	46815.0	0.027242961
278 48943.3	47314.6	0.03130829
279 42899.7	41359.2	0.040301204
280 45721.6	43684.2	0.03928913
281 46306.1	44765.0	0.033426424
282 47893.4	46428.8	0.02948761
283 44965.5	43436.7	0.031183257
284 45194.4	43584.9	0.03499213
285 46478.2	44779.3	0.035361298
286 47920.3	46651.7	0.027196771
287 47747.3	46162.4	0.030060811
288 45841.0	44507.1	0.028975923
289 47732.3	45880.9	0.032104514
290 45703.2	44112.3	0.034377589
291 48755.2	47266.0	0.027979024

292 42604.9	41191.6	0.036921931
293 48208.4	46703.6	0.027922596
294 44819.2	42822.3	0.040669209
295 44112.2	42045.1	0.038274601
296 44080.6	42407.6	0.035866669
297 43261.4	41362.3	0.041069362
298 43801.9	42170.7	0.035410079
299 44171.3	42271.7	0.03905955
300 47259.6	45642.1	0.030435826
301 44911.8	43369.2	0.033315484
302 46244.5	44938.3	0.027374924
303 45340.5	43516.6	0.040295998
304 45657.1	44029.2	0.032288537
305 44806.8	43416.5	0.032607845
306 48896.1	47044.6	0.034593159
307 46359.4	44896.2	0.03165502
308 50147.4	48566.5	0.029208711
309 47151.0	45282.0	0.034787796
310 47476.6	46009.6	0.030327188
311 44622.4	42798.7	0.03918908
312 43194.5	41557.0	0.03928266
313 46288.4	44943.2	0.029359065
314 47920.8	46915.1	0.023941239
315 44948.0	43300.1	0.037193344
316 45939.4	44659.4	0.029904048
317 46131.6	44712.0	0.031510923
318 46638.8	45150.6	0.028780076
319 44257.4	42540.7	0.037285054
320 45252.4	43295.2	0.037728129
321 44374.1	43001.9	0.03267104
322 48425.5	46942.8	0.03007486
323 47589.5	46087.9	0.032719745
324 48893.4	47580.5	0.025946374
325 45756.9	43841.7	0.038182188
326 48758.3	47277.6	0.029655168
327 45707.7	44207.4	0.033271182
328 46559.2	45166.2	0.030946258
329 45710.7	43899.8	0.034960091
330 46779.3	45120.8	0.033080372
331 45316.5	43938.7	0.029730107
332 43436.7	41882.6	0.035004777
333 44829.3	43089.3	0.038387783
334 46369.7	44806.2	0.03206449
335 47766.5	46340.8	0.028102042

336 45039.0	43498.9	0.033191457
337 45641.7	43823.7	0.037999871
338 48225.0	46933.3	0.026846738
339 49009.7	47659.2	0.027433431
340 46222.0	44776.0	0.034373699
341 45951.6	44248.1	0.033146189
342 45335.7	43580.3	0.035067358
343 46681.3	44969.3	0.032358374
344 49065.8	47501.1	0.030056364
345 44367.2	42745.8	0.034720552
346 43424.6	41897.7	0.034242292
347 46369.3	44612.8	0.036635095
348 45622.2	44422.7	0.028551686
349 46745.7	45319.2	0.031202998
350 46887.1	45258.4	0.031705802
351 46507.7	44582.2	0.037484049
352 49145.8	47298.7	0.033869412
353 48392.8	46726.3	0.032139681
354 43579.2	41866.5	0.041740737
355 48189.3	46357.9	0.033195514
356 44984.3	43247.1	0.034764718
357 41402.2	39532.5	0.043769402
358 46251.2	44787.3	0.032114122
359 47157.8	45474.1	0.032602346
360 45639.5	43922.4	0.035784021
361 44248.3	42411.1	0.042998967
362 44398.1	42829.6	0.0364379
363 47457.8	45750.3	0.034562953
364 43094.2	41485.4	0.037209437
365 48565.6	47190.6	0.030591914
366 47331.5	45762.0	0.030464453
367 44343.5	42715.7	0.040197412
368 46891.0	45571.7	0.029025276
369 47789.2	46192.2	0.032479107
370 46486.1	44877.6	0.031219054
371 47863.0	46446.1	0.027465814
372 44396.2	42782.0	0.036294795
373 46246.8	44310.3	0.039491365
374 44766.3	43077.4	0.035588026
375 46732.2	45059.8	0.031896182
376 46529.0	44751.7	0.035984547
377 49692.3	48042.2	0.029362275
378 46312.3	44770.6	0.031032266
379 42667.8	41069.4	0.035903645

380 48091.0	46722.0	0.028718462
381 47508.4	46218.3	0.029492312
382 45342.4	43832.1	0.033803548
383 45687.9	44301.0	0.032612544
384 47415.4	45989.4	0.028895662
385 48677.6	47757.4	0.021144861
386 46522.7	45198.4	0.028765653
387 49088.6	47232.6	0.032105832
388 46532.8	45181.6	0.0286091
389 45970.2	44253.6	0.034384807
390 46127.0	44340.1	0.03509583
391 40757.5	39038.4	0.04744651
392 44648.7	43125.5	0.036613711
393 45907.4	44298.7	0.038326422
394 48740.9	47043.6	0.032303057
395 41284.6	39703.4	0.047384884
396 48471.2	46776.4	0.030123347
397 43994.8	42223.6	0.037978687
398 50675.3	49484.3	0.024297677
399 44898.3	43246.3	0.034919849
400 45243.0	43766.6	0.032755167
401 46810.7	45019.2	0.032623641
402 47754.0	46497.6	0.024669665
403 44985.8	43399.0	0.033721034
404 46675.2	45204.5	0.035024249
405 45597.4	44092.3	0.032375743
406 45429.3	43922.3	0.031809527
407 46142.1	44561.6	0.033147937
408 44211.6	42616.1	0.036741255
409 43667.8	42186.5	0.034954106
410 48324.0	46785.6	0.028600137
411 46959.6	45474.5	0.031668698
412 46259.2	44792.5	0.035581019
413 46388.2	44813.5	0.033385575
414 49029.6	47759.7	0.026533416
415 48951.2	47442.8	0.028229476
416 43046.8	41340.5	0.040399902
417 45785.9	44177.3	0.032461979
418 45643.0	43685.8	0.040698514
419 46298.4	44759.8	0.031136324
420 46271.1	44756.6	0.033826629
421 49465.7	47775.3	0.031063015
422 48755.7	47352.0	0.027305025
423 51196.2	49674.9	0.027069701

424 47210.6	45782.1	0.028517598
425 43032.7	41022.3	0.043158377
426 46382.9	44768.3	0.033646945
427 47884.0	46374.8	0.030804225
428 47501.6	45942.7	0.032957224
429 46036.4	44546.8	0.032626433
430 49897.2	48487.6	0.026846474
431 45770.9	44317.4	0.035212137
432 45488.2	44235.2	0.028736986
433 47420.3	46036.3	0.029231965
434 45544.5	43674.9	0.040017549
435 45313.4	43926.3	0.032433749
436 49729.1	48387.9	0.024511171
437 46480.9	45052.6	0.028169243
438 46531.4	44850.9	0.033344974
439 46564.7	45080.3	0.032865568
440 42111.2	40520.2	0.040184056
441 47332.6	45865.2	0.029996321
442 46513.4	45221.7	0.02922467
443 44482.2	42855.4	0.038590327
444 47203.6	45795.4	0.02791931
445 46391.8	45055.4	0.031140659
446 48262.2	46755.2	0.02937855
447 45968.3	44402.0	0.032810026
448 45319.2	43905.9	0.033979366
449 49153.4	47369.6	0.030355084
450 44951.6	43278.3	0.035173453
451 45226.0	43652.7	0.034220473
452 45567.5	43846.2	0.039995104
453 47028.8	45556.5	0.030439282
454 46191.5	44675.1	0.032869443
455 46330.1	45086.5	0.02754403
456 47832.0	46130.7	0.033309188
457 47293.0	45259.3	0.040148725
458 49015.0	47240.7	0.031552648
459 47063.5	45615.9	0.031047465
460 45334.1	43392.3	0.039364915
461 46143.0	44686.3	0.032994831
462 45940.8	44235.5	0.036183566
463 43684.4	42214.3	0.037179685
464 48978.2	47215.2	0.034511986
465 47486.7	46114.7	0.028950499
466 44617.0	42695.4	0.039637168
467 48435.2	47217.6	0.027428497

468 46247.6	45027.1	0.032347071
469 43283.5	41605.3	0.038848188
470 47698.1	46159.8	0.029138037
471 49015.0	47542.2	0.027923614
472 48807.4	47317.5	0.02788012
473 48291.9	46918.7	0.026313462
474 50328.3	49290.4	0.023054323
475 46018.4	44733.0	0.031512824
476 46466.8	44868.9	0.035108912
477 44368.0	42577.0	0.038440642
478 47960.2	46713.5	0.026099959
479 43783.6	42144.3	0.033741715
480 46646.6	45058.4	0.032199202
481 45929.2	44006.8	0.042438904
482 48203.6	46837.7	0.026450405
483 48337.5	46870.9	0.030150381
484 48607.7	47469.7	0.024392436
485 49952.8	48266.0	0.030899267
486 43912.6	42218.2	0.038088243
487 43473.8	41899.1	0.036293894
488 47964.9	46642.6	0.028723662
489 47264.0	45585.5	0.03389286
490 48293.7	46725.1	0.03113237
491 48102.3	46651.7	0.029584477
492 50225.7	48834.7	0.028916089
493 45972.9	44446.6	0.033832799
494 46375.9	44537.7	0.038134354
495 49959.6	48654.8	0.025533171
496 46398.9	45045.6	0.031844892
497 45962.8	44561.6	0.030612498
498 47480.1	45886.7	0.031059423
499 44438.3	42557.8	0.041135279
500 43925.5	42471.9	0.034015542
501 49252.5	47637.8	0.03098188
502 49022.2	47565.8	0.026524195
503 45119.5	43411.2	0.036750981
504 46128.3	44406.9	0.033014583
505 46863.7	45408.0	0.031127342
506 45522.5	44210.4	0.03110651
507 45805.2	43969.6	0.036743379
508 46429.1	45000.3	0.032014602
509 43378.3	41625.4	0.038953788
510 46690.9	45273.5	0.029237411
511 47477.5	46187.3	0.027391284

512 43313.3	41938.6	0.03248278
513 49080.6	47844.8	0.026182856
514 46462.3	45043.4	0.030077615
515 43534.2	41899.4	0.038203091
516 45917.5	44509.6	0.031368797
517 43174.5	41689.7	0.037841139
518 46889.0	45566.3	0.030634076
519 48038.2	46613.0	0.028454021
520 46536.1	44716.3	0.034704779
521 43445.2	41858.0	0.034351102
522 46795.1	44945.9	0.035372964
523 49096.0	47824.9	0.027568297
524 49779.9	48264.3	0.028912881
525 47674.8	46198.7	0.026948923
526 49420.1	47896.6	0.030604457
527 42168.9	40549.4	0.03906624
528 45876.0	44436.6	0.031285885
529 46064.4	44455.4	0.035622229
530 43791.1	42224.2	0.034606227
531 46721.7	44975.4	0.035124161
532 50670.0	49397.1	0.02181243
533 46814.9	45237.3	0.032943636
534 49740.4	48089.6	0.029847233
535 45121.1	43341.3	0.035762185
536 46681.0	45398.5	0.026527051
537 46876.0	45559.2	0.027828688
538 48173.0	46604.9	0.029513063
539 47533.6	46236.0	0.031010847
540 46962.9	45468.4	0.032903987
541 51286.6	49943.5	0.025031996
542 44873.2	43385.3	0.034478618
543 46209.5	44489.8	0.038044702
544 48176.8	46311.7	0.033872331
545 46663.9	45212.9	0.031387204
546 44936.5	43396.9	0.036894046
547 45963.7	44538.4	0.029560419
548 46633.6	44990.5	0.035438502
549 44020.6	42842.3	0.030647869
550 43912.3	42053.9	0.040295048
551 46174.4	44497.5	0.035926699
552 47646.5	45939.4	0.032326552
553 50675.5	49463.5	0.023903873
554 48869.4	47231.2	0.032060605
555 45008.9	43580.1	0.032631294

556 47166.6	45746.2	0.030670541
557 46896.0	45178.5	0.036386023
558 46589.2	45216.5	0.030856077
559 47792.2	46678.7	0.02558765
560 49838.2	48412.6	0.026409942
561 45996.6	44532.3	0.030324172
562 45307.4	43651.0	0.034778628
563 44361.1	42873.7	0.033933166
564 45288.6	43646.8	0.035243586
565 45667.3	44203.1	0.035307129
566 46901.5	45076.7	0.033646846
567 44950.0	43516.2	0.033151794
568 46841.1	45232.9	0.033327275
569 46911.0	45248.8	0.032037615
570 46545.3	45072.2	0.033319069
571 47386.0	45781.2	0.031987145
572 45372.7	43641.4	0.035485483
573 46270.8	44676.4	0.032730444
574 45747.1	44343.0	0.030288522
575 46490.1	44822.5	0.035353732
576 42996.5	41240.5	0.041108817
577 46945.8	45723.1	0.027108484
578 47595.1	46126.1	0.030857263
579 44720.2	43300.2	0.033002401
580 47537.2	45675.1	0.033493539
581 44262.5	42848.2	0.034310776
582 42074.7	40479.9	0.041023635
583 45508.7	43738.4	0.035246451
584 45252.3	43340.0	0.039590587
585 47355.5	45798.3	0.032100696
586 45847.1	43919.2	0.039746312
587 46604.3	45187.2	0.030380713
588 47494.8	46062.6	0.03355777
589 47752.2	46522.0	0.025667403
590 44985.4	43336.6	0.036346138
591 44849.7	42984.4	0.044429441
592 47018.6	45378.4	0.033323652
593 44222.1	42409.8	0.037620097
594 47654.7	46086.0	0.029361891
595 46784.6	45226.4	0.033026274
596 43987.6	42425.5	0.031912576
597 47251.8	45644.7	0.032391704
598 50810.7	49528.7	0.026005355
599 46882.9	45570.3	0.02483207

600	46185.6	44281.8	0.037401156
601	48456.4	47006.2	0.029984133
602	46884.5	45259.5	0.035418823
603	45087.1	43600.4	0.031639666
604	44338.4	42703.5	0.036015026
605	43887.4	42161.6	0.039862938
606	44407.5	42500.1	0.039561138
607	44172.6	42447.6	0.037812172
608	47221.9	45459.1	0.033276899
609	44601.2	42835.4	0.037362686
610	44860.6	43416.1	0.031301351
611	47270.9	45812.5	0.029632489
612	46963.4	45428.4	0.030283336
613	48719.9	47115.2	0.028706042
614	43226.6	41775.7	0.03729619
615	46548.3	45232.9	0.031090876
616	47057.8	45473.5	0.031315325
617	43355.9	41502.6	0.040177656
618	47110.7	45267.8	0.034226343
619	47267.4	45242.7	0.036566344
620	44704.6	43093.1	0.034266883
621	45175.1	43278.9	0.04017487
622	48127.3	46733.1	0.026505468
623	45554.8	44081.6	0.02924004
624	44398.7	42864.0	0.034037338
625	45849.5	44353.5	0.031180679
626	44864.8	43325.9	0.034093125
627	50133.4	49355.3	0.019419847
628	46984.7	45430.3	0.032108812
629	46790.4	45233.8	0.031218923
630	45966.8	44550.6	0.031068537
631	46682.6	45225.2	0.029205145
632	48850.3	47506.0	0.027854625
633	44239.4	42668.6	0.035277312
634	45577.1	43922.3	0.036927041
635	45640.5	44076.6	0.033248066
636	44865.8	43224.5	0.039029215
637	45477.8	44061.5	0.030097511
638	47080.1	45106.6	0.036100473
639	48935.6	47522.6	0.027566976
640	46855.5	45199.6	0.032898467
641	47539.5	46091.7	0.031593511
642	44626.2	42934.7	0.036719979
643	49057.4	47682.9	0.025111216

644 48477.6	47010.4	0.027343054
645 41651.6	39939.6	0.0395518
646 48682.2	47001.5	0.029646861
647 45904.3	44271.4	0.036276585
648 49413.7	47952.0	0.027828022
649 48105.1	46773.8	0.027286941
650 48184.9	46434.8	0.031539248
651 46178.0	44731.5	0.031086492
652 43464.6	41499.6	0.043209303
653 42694.6	40966.1	0.037998294
654 47099.6	45428.0	0.032476252
655 47482.6	45665.0	0.034349937
656 43229.5	41361.7	0.040302724
657 45677.5	43713.9	0.037983498
658 44441.2	42857.8	0.03461417
659 46548.1	45303.6	0.028580229
660 47620.6	46279.7	0.029019638
661 46133.1	44220.3	0.039177966
662 43935.0	42200.7	0.037976833
663 48830.4	47637.9	0.025865903
664 46671.2	44980.6	0.032846154
665 44138.2	42523.7	0.038724393
666 46013.1	44763.6	0.026402591
667 46897.4	45639.0	0.024599303
668 43501.8	41591.9	0.042162657
669 45039.7	43398.0	0.038805865
670 46244.2	44652.5	0.033491552
671 46693.7	45079.4	0.031605213
672 46194.2	44606.9	0.034127085
673 42531.3	40820.4	0.040204174
674 44863.0	42875.8	0.03874731
675 46476.3	44998.3	0.03119451
676 44190.8	42654.5	0.032861237
677 46749.0	45257.7	0.031304623
678 49621.0	47966.2	0.027882387
679 44394.1	43118.5	0.030953051
680 45738.3	44302.6	0.031357158
681 49489.0	48080.9	0.029402766
682 43631.1	41952.6	0.038062343
683 46614.0	45098.9	0.033331092
684 45652.2	44233.9	0.033037149
685 44942.1	43244.7	0.038798026
686 46566.0	45117.3	0.03078204
687 44792.9	43189.1	0.037847094

688 46825.6	45207.6	0.031735314
689 48873.2	47335.0	0.028793311
690 45959.9	44328.8	0.032761064
691 50652.4	49591.9	0.020652321
692 45132.9	43385.3	0.035087847
693 46909.3	45068.9	0.035964875
694 43798.8	42110.6	0.03649255
695 43399.7	41678.0	0.038103748
696 46700.0	45130.4	0.032367519
697 48044.6	46642.2	0.029946917
698 46452.0	44598.8	0.035868315
699 42573.8	40986.0	0.040418814
700 48525.8	47068.3	0.028836255
701 46336.8	45116.9	0.027397746
702 45271.0	43614.6	0.036236315
703 45915.3	44144.1	0.036362038
704 44198.0	42651.2	0.03563653
705 45645.0	44202.8	0.029787834
706 46783.0	45165.6	0.032295934
707 46899.1	45434.1	0.032347469
708 48221.3	46676.2	0.028932975
709 47900.2	46662.2	0.024786973
710 45895.7	44206.8	0.035561491
711 46753.0	45359.0	0.02899019
712 44155.7	42589.5	0.037324639
713 47372.6	46474.0	0.022572657
714 47991.7	46476.2	0.029864634
715 50603.9	49406.3	0.025263544
716 46141.0	44310.6	0.035409153
717 45536.5	43847.3	0.035147198
718 44307.3	42449.0	0.036868807
719 46525.4	45050.0	0.030192146
720 50037.4	48482.8	0.027478152
721 44025.9	42462.3	0.035447944
722 46018.0	44343.1	0.036063859
723 44857.7	43429.6	0.035935167
724 45078.6	43515.3	0.034168935
725 47079.1	45569.1	0.0313476
726 48929.2	47470.3	0.028539372
727 43684.0	41973.0	0.034876929
728 48353.4	46954.6	0.026441101
729 50010.1	48284.2	0.02845811
730 49675.9	48483.2	0.024166979
731 46878.3	45341.3	0.031992203

732 46737.0	44800.4	0.037441979
733 48323.0	46806.2	0.030184851
734 41743.4	39820.2	0.047659018
735 47674.5	46147.0	0.032250284
736 48579.0	47065.6	0.029981855
737 45451.0	43577.3	0.035421002
738 47348.9	45867.9	0.029484854
739 48028.5	46654.1	0.026897288
740 46076.4	44656.4	0.034402935
741 50232.0	48499.5	0.03040119
742 50143.8	48713.1	0.030355883
743 48642.0	47242.9	0.028728755
744 47474.2	46221.7	0.02611005
745 44001.0	42811.6	0.033842811
746 44834.8	43301.5	0.032665722
747 45495.3	44261.1	0.03051691
748 45956.3	44103.3	0.037000723
749 45849.7	44282.7	0.03595473
750 42907.2	40997.2	0.045738135
751 45208.5	43554.5	0.035401592
752 47443.8	45919.2	0.031641484
753 45405.8	43849.4	0.036613417
754 45533.1	44028.5	0.030459465
755 43897.5	41683.4	0.04606518
756 47122.5	45668.2	0.02970051
757 44175.1	42750.8	0.03449411
758 47579.8	46016.6	0.032951018
759 47298.7	45793.7	0.031550198
760 46030.3	44504.9	0.032681865
761 47609.7	46188.9	0.031812348
762 46731.7	45490.2	0.028671949
763 45699.9	44005.3	0.033568039
764 47199.5	45837.8	0.031360898
765 46079.3	44398.8	0.034450822
766 44312.4	42632.3	0.036005471
767 46556.3	45275.5	0.029382995
768 44571.7	42774.2	0.037581989
769 45890.0	43778.1	0.042280165
770 46358.1	44336.7	0.040186209
771 48047.2	46667.8	0.030053094
772 43915.8	42222.4	0.03883473
773 44879.3	43247.5	0.033314694
774 46477.3	45043.1	0.030698004
775 47039.9	45508.7	0.035102113

776 43483.4	41824.1	0.039194035
777 46339.8	44855.2	0.029983215
778 42759.8	40986.3	0.042179764
779 45255.9	43795.6	0.035145871
780 48028.8	46695.2	0.029050168
781 45497.6	43945.3	0.037321778
782 46928.1	45362.7	0.031929236
783 45036.9	43443.3	0.034656065
784 48423.9	46891.1	0.027912259
785 47139.7	45131.9	0.036643288
786 48778.5	46960.5	0.033456109
787 47003.8	45310.3	0.031973971
788 49003.2	47525.1	0.029583408
789 46028.1	44150.7	0.037695482
790 44644.0	43138.8	0.037399844
791 46290.6	44545.2	0.034677887
792 44216.7	42356.8	0.035954142
793 48390.6	46894.8	0.030804873
794 42359.9	40613.1	0.041439208
795 44595.1	43171.4	0.034678415
796 45682.8	43973.0	0.035507916
797 44409.3	42580.4	0.041959748
798 44708.4	43197.9	0.034115143
799 48614.6	47387.6	0.024912932
800 46598.2	45048.6	0.033869196
801 44863.3	43311.6	0.036689603
802 45693.0	43882.5	0.038840628
803 47435.4	46111.4	0.030406198
804 44360.5	42819.4	0.035955117
805 43567.8	42014.4	0.033835604
806 46165.1	44910.1	0.027495987
807 45702.7	44273.0	0.032316523
808 48875.1	47230.8	0.029580283
809 47099.0	45707.2	0.032703674
810 45762.1	44497.4	0.029982187
811 44296.6	42448.6	0.04260923
812 41401.8	39537.9	0.048070775
813 51404.2	50203.3	0.023545664
814 44975.4	43616.6	0.028821444
815 45749.9	44171.4	0.031902031
816 44026.2	42281.3	0.04227173
817 46123.7	44799.0	0.029923876
818 43940.3	42362.4	0.034972955
819 46171.5	44820.0	0.027709859

820 44194.4	42732.6	0.035549692
821 44711.6	43451.1	0.030799337
822 47913.3	46577.6	0.028307607
823 45722.5	44033.9	0.036786886
824 44910.5	43376.0	0.033374238
825 49822.8	48314.3	0.030018306
826 45682.6	44080.3	0.031640218
827 47824.0	46246.7	0.032749145
828 46136.3	44565.8	0.034434479
829 48366.9	46466.1	0.034697527
830 49442.1	48077.7	0.026343884
831 47204.7	45814.2	0.027985448
832 45328.4	43559.0	0.033391154
833 46202.8	44619.3	0.035367286
834 46923.2	45391.8	0.034273341
835 46860.4	45433.3	0.033439484
836 45227.7	43779.8	0.03278263
837 46081.3	44720.7	0.026630213
838 47076.0	45392.0	0.035182574
839 44778.3	43276.7	0.035360748
840 46609.9	45154.6	0.031868684
841 47311.9	45423.1	0.036713489
842 45983.5	44417.7	0.033957137
843 46617.8	44926.8	0.035716189
844 46658.9	45366.5	0.029469183
845 45065.3	43214.0	0.034145523
846 42344.8	40266.6	0.046183358
847 49324.9	48013.6	0.02725136
848 44352.7	42779.4	0.035302434
849 47980.1	46336.3	0.033498413
850 46632.0	45040.4	0.030941032
851 46421.4	44713.7	0.032885922
852 47882.3	46300.6	0.03073913
853 42288.9	40481.0	0.040946095
854 47051.1	45637.5	0.031205365
855 47021.4	45714.0	0.028392394
856 46655.1	45375.8	0.031068479
857 46031.8	44386.2	0.033084913
858 45697.7	44224.7	0.030785809
859 47703.6	46257.9	0.025890127
860 46180.7	44484.1	0.03463092
861 46672.8	45346.8	0.028957755
862 47790.7	46162.4	0.033779184
863 48457.6	46802.6	0.032566275

864 45590.9	43999.0	0.036282147
865 47409.7	45858.4	0.031419627
866 46387.4	44902.6	0.032527607
867 46613.6	45163.0	0.030876067
868 48109.2	46597.2	0.028993414
869 45935.9	44435.2	0.035415692
870 45200.1	43749.0	0.03295894
871 49021.8	47387.6	0.032149669
872 48509.3	47254.1	0.02692712
873 46270.8	44636.2	0.037719384
874 45338.7	43882.9	0.03480889
875 46285.1	44772.2	0.031536305
876 42957.3	41144.3	0.040812837
877 43406.2	41434.2	0.042593428
878 46983.5	45374.0	0.030092942
879 43630.7	41934.5	0.039257504
880 48469.9	46615.8	0.034194148
881 42892.2	41286.9	0.039516194
882 45282.9	43768.9	0.0341451
883 41775.6	40298.9	0.041056028
884 47721.5	46187.4	0.029559143
885 49051.9	47726.1	0.026089793
886 43252.2	41704.7	0.032941638
887 45188.9	43413.6	0.032974156
888 44952.1	42964.1	0.037625483
889 47660.5	45851.4	0.034784967
890 48170.0	46817.5	0.026763095
891 44243.1	42540.5	0.035189991
892 48020.7	46449.7	0.029006385
893 48984.5	47374.0	0.033549229
894 42088.2	40679.9	0.037871767
895 46908.6	45255.4	0.03357111
896 46343.8	44729.0	0.033292045
897 46210.2	44785.3	0.030692164
898 47498.2	46105.4	0.030340335
899 45898.0	44433.5	0.032074134
900 47094.6	45458.3	0.034020645
901 45096.7	43526.3	0.036635883
902 45601.4	44009.7	0.034859829
903 48882.1	47618.6	0.027941223
904 47496.6	45956.6	0.032542482
905 46217.4	44560.1	0.034769003
906 43155.9	41557.3	0.036009463
907 47973.1	46802.5	0.02695476

908 43720.0	42333.1	0.03399429
909 43425.0	41668.4	0.04186093
910 44622.6	42956.0	0.033359369
911 43861.5	42508.1	0.032829087
912 50645.4	49572.5	0.023240055
913 48818.0	47506.5	0.027728946
914 44897.7	43257.1	0.034852273
915 48622.7	47326.3	0.02496421
916 45409.1	44013.4	0.032189849
917 47085.9	45549.7	0.03156331
918 47334.0	45701.3	0.032898318
919 45651.4	44275.0	0.032111451
920 44587.8	43154.1	0.03383865
921 49967.1	48697.1	0.027696337
922 49811.5	48388.7	0.027985254
923 50013.3	48909.6	0.021467694
924 47597.1	45838.0	0.034870655
925 46962.8	45357.5	0.03149829
926 47067.8	45551.9	0.030344613
927 44372.1	42679.2	0.038201987
928 45089.7	43330.6	0.038492893
929 44664.5	43437.5	0.033058728
930 45046.6	43422.9	0.035241676
931 49483.3	48253.9	0.023834776
932 41878.0	40234.7	0.039775292
933 47568.4	46219.4	0.028827197
934 46330.3	44830.4	0.033448098
935 45336.4	43865.5	0.034256296
936 47896.9	46291.8	0.031872865
937 44730.0	43213.1	0.036957964
938 43983.1	41994.4	0.039282073
939 42907.8	41207.6	0.038353879
940 47288.6	45993.0	0.026784517
941 45202.5	43579.2	0.033723984
942 45200.0	43187.1	0.038505452
943 42575.0	41106.4	0.040527288
944 43009.9	41325.5	0.042399903
945 46233.5	44898.0	0.02877737
946 47665.1	46148.3	0.029315846
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949 46894.4	45320.9	0.03297027
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951 45552.1	44038.8	0.032761843

952 47197.5	45295.2	0.036431724
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955 44439.7	43057.8	0.030772005
956 47695.4	46206.0	0.030355865
957 44194.7	42305.4	0.04232845
958 46191.1	44465.7	0.036235762
959 49529.6	48336.2	0.026765126
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962 47711.7	46250.4	0.031019207
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964 45151.2	43286.7	0.037418135
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967 45914.7	44312.8	0.036845151
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974 46441.5	45147.8	0.028173394
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982 44605.4	42740.8	0.040423774
983 47076.6	45489.0	0.030452884
984 52042.0	50749.3	0.023796698
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986 44116.2	42626.0	0.035506644
987 44857.6	43253.9	0.037663463
988 47998.7	46481.3	0.030459104
989 48523.9	47527.7	0.022007362
990 43478.0	41964.9	0.037681256
991 45079.9	43657.5	0.032192907
992 46291.3	44866.4	0.029241506
993 42031.8	40026.8	0.045834115
994 46579.8	44939.4	0.031650761
995 43896.6	42463.4	0.03176849

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998	47020.3	45622.4	0.031883295
999	46466.7	44635.7	0.037556873
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1004	49311.1	47732.2	0.030759515
1005	50517.2	49253.3	0.026973518
1006	47844.1	46321.5	0.030154009
1007	47090.7	45786.8	0.02806151
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1010	46909.5	45366.1	0.029373531
1011	43247.4	41552.7	0.038138352
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1014	46817.8	45421.6	0.030491049
1015	49589.8	48276.5	0.026357169
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1181	44339.3	42630.0	0.036104268
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1210	46908.2	45586.8	0.029891269
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1239	46940.8	45406.9	0.033825358
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1246	45434.1	43969.2	0.030603999
1247	48028.2	46650.1	0.027625849
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1254	44149.6	42509.5	0.038167909
1255	46708.3	44835.3	0.037339083
1256	46003.7	44736.3	0.030493018
1257	46601.7	44903.9	0.035088689
1258	43474.9	41501.8	0.043924193
1259	44026.1	42471.2	0.036734538

1260	45278.2	43433.2	0.03848347
1261	46524.7	45000.8	0.031907611
1262	46141.0	44543.3	0.036269287
1263	48569.2	47373.3	0.027289097
1264	46029.3	44685.5	0.028312534
1265	46470.6	45031.5	0.031713538
1266	45279.0	43779.3	0.031866669
1267	46645.8	44947.5	0.036186803
1268	44422.0	42815.6	0.033315447
1269	46624.6	44994.8	0.031135904
1270	47989.0	46557.5	0.029176292
1271	47306.6	46083.6	0.023502103
1272	44290.1	42561.1	0.038391853
1273	41710.3	40356.1	0.042076648
1274	46568.7	44893.7	0.036102207
1275	42134.7	40604.5	0.038082088
1276	45179.9	43613.2	0.035959417
1277	45941.9	44447.6	0.030007693
1278	47245.6	46159.1	0.024106453
1279	47409.8	45843.1	0.032030949
1280	47220.2	45661.1	0.032029898
1281	47662.7	46037.0	0.031116683
1282	46279.3	44460.7	0.035351598
1283	45950.5	44536.7	0.033379217
1284	46634.5	45204.0	0.033726821
1285	44073.8	42331.0	0.039420239
1286	44454.1	42791.8	0.037214115
1287	47344.9	45889.7	0.031429135
1288	45378.6	43791.3	0.03226144
1289	46872.6	45140.0	0.032822209
1290	46661.7	44694.1	0.038905713
1291	44656.5	43071.3	0.033674491
1292	45592.2	44137.1	0.030490332
1293	44934.8	43036.2	0.038408875
1294	45493.9	44097.3	0.03375987
1295	48739.5	47321.2	0.031377795
1296	45851.6	44052.4	0.03805567
1297	47167.7	45689.0	0.029664785
1298	46494.7	45055.2	0.029748504
1299	47902.5	46181.8	0.034335086
1300	46069.5	44423.3	0.030643253
1301	51279.7	50075.1	0.023182499
1302	47173.6	45885.7	0.030104094
1303	49013.1	47336.6	0.031278081

1304	47525.1	45765.0	0.033071047
1305	48143.1	46908.6	0.024815092
1306	47745.2	46182.8	0.030594916
1307	47431.4	46128.1	0.027753107
1308	47444.4	46169.7	0.027593292
1309	46983.8	45374.0	0.033189797
1310	42736.8	41293.8	0.039530228
1311	47060.3	45602.9	0.030807127
1312	46218.7	44886.0	0.029457597
1313	46521.2	44953.2	0.035653846
1314	42689.2	40957.3	0.041324109
1315	45546.2	43955.8	0.034733096
1316	45776.6	44236.8	0.032381825
1317	46376.8	45056.0	0.030398273
1318	46099.3	44775.8	0.028473389
1319	45875.4	44059.6	0.035604439
1320	45056.5	43038.4	0.036943641
1321	42243.8	40231.3	0.045276989
1322	46073.5	44484.3	0.031676573
1323	45620.6	43984.7	0.032165935
1324	44773.8	42913.2	0.03747652
1325	46355.1	44742.7	0.03374778
1326	44294.1	42733.7	0.035915102
1327	44604.9	42976.5	0.035733802
1328	43508.6	42048.1	0.034078067
1329	48147.9	46489.6	0.032470959
1330	45612.3	43922.5	0.036663549
1331	43556.3	41625.5	0.043297516
1332	42908.3	41386.2	0.038824747
1333	49537.3	48213.9	0.028814325
1334	46655.7	44985.4	0.034262019
1335	47587.7	46325.5	0.027329001
1336	40172.6	38080.3	0.049725291
1337	46644.1	45058.8	0.032615412
1338	48232.9	46814.1	0.028457226
1339	45889.1	44241.8	0.035014432
1340	48704.8	47216.6	0.027929606
1341	48290.7	46923.4	0.025829636
1342	43904.8	42365.5	0.03569019
1343	47185.7	45999.6	0.026604308
1344	44499.5	43021.1	0.033516791
1345	47141.5	45370.4	0.03490749
1346	45200.1	43636.9	0.034573548
1347	45324.7	43573.0	0.037940781

1348	43021.5	41603.7	0.033724627
1349	46407.0	44607.0	0.036631526
1350	48813.1	47381.0	0.027778895
1351	46166.5	44158.2	0.036689531
1352	47039.5	45606.8	0.031785317
1353	42516.2	40726.5	0.043953218
1354	44624.0	42923.5	0.037067687
1355	47232.0	45729.1	0.031191344
1356	44921.8	43438.2	0.032894645
1357	44163.6	42357.2	0.037959007
1358	43183.8	41644.6	0.036454948
1359	47033.4	45658.9	0.030535772
1360	44608.4	42862.5	0.036225717
1361	46035.3	44222.7	0.035908105
1362	44368.1	42833.4	0.033373358
1363	45926.2	44409.6	0.032595475
1364	44273.1	43051.2	0.029285007
1365	47907.3	46215.3	0.032724829
1366	42480.5	40909.0	0.041868395
1367	48193.6	46764.0	0.029864558
1368	46591.5	44997.6	0.034035127
1369	44352.1	42852.3	0.031695417
1370	47496.2	45931.7	0.031507588
1371	46196.9	44668.0	0.032386939
1372	46399.5	44819.3	0.031499941
1373	42486.2	40463.9	0.045589012
1374	46917.4	45279.8	0.033932984
1375	44016.6	42571.7	0.035927947
1376	47689.1	46063.1	0.032012024
1377	46845.4	45304.8	0.032476793
1378	45322.4	43907.3	0.034927085
1379	48067.2	46921.4	0.025671453
1380	44939.4	43314.5	0.036551903
1381	47818.4	45982.0	0.036548129
1382	46997.7	45572.1	0.031918566
1383	48343.6	46907.1	0.029360265
1384	45245.0	43877.5	0.032132233
1385	45803.7	44119.3	0.038352672
1386	44415.0	42939.1	0.032501947
1387	45739.7	44247.9	0.034456223
1388	47289.4	46153.9	0.027842039
1389	48607.9	47481.3	0.025713942
1390	45593.6	43813.7	0.036143736
1391	47006.5	45044.2	0.038535283

1392	46321.2	44765.0	0.036010998
1393	47158.6	45627.7	0.031390828
1394	45930.2	44066.5	0.038030196
1395	44659.9	42698.6	0.039823904
1396	45321.8	43531.6	0.037933064
1397	49912.0	48432.4	0.025595867
1398	44821.6	43056.1	0.038392056
1399	45096.0	43545.4	0.033882874
1400	46712.1	45179.6	0.033327524
1401	46681.9	44987.6	0.036021196
1402	45835.8	44450.5	0.031784104
1403	47923.1	46290.8	0.033613459
1404	44291.7	42779.3	0.037724787
1405	48114.4	46350.9	0.032299823
1406	44671.4	43001.2	0.034217283
1407	43558.7	41715.2	0.043472281
1408	48001.5	46341.0	0.032559015
1409	48269.4	46817.3	0.031940802
1410	42890.4	41106.6	0.046414526
1411	44330.0	42402.4	0.039381413
1412	48400.3	46929.3	0.03162551
1413	47693.3	46074.6	0.032122659
1414	45089.4	43137.1	0.04108958
1415	44134.1	42541.7	0.034618678
1416	46190.5	44787.5	0.031311183
1417	45102.7	43832.6	0.031753347
1418	45490.2	43812.6	0.036663264
1419	47709.2	46083.6	0.032976741
1420	49284.2	47940.4	0.024671651
1421	46043.4	44528.8	0.029717885
1422	48315.1	46578.2	0.032486203
1423	45130.6	43746.6	0.029915023
1424	47042.1	45689.4	0.028576152
1425	45358.2	43679.4	0.033440697
1426	45935.4	44328.9	0.033498391
1427	49715.2	48319.6	0.027702454
1428	47372.4	45864.2	0.030936131
1429	49321.6	47919.8	0.027368294
1430	44583.6	43033.2	0.033042078
1431	47227.8	45755.8	0.031467555
1432	46294.3	44616.9	0.032172024
1433	47073.9	45435.8	0.031191036
1434	48877.2	47606.2	0.026235282
1435	46040.0	44040.0	0.043238156

1436	44884.2	43091.8	0.034533378
1437	44446.3	42861.0	0.037294616
1438	47405.1	46376.1	0.027094243
1439	44776.7	43112.8	0.035786482
1440	42403.2	40651.2	0.042983297
1441	46199.0	44655.1	0.030634383
1442	43736.1	42055.5	0.040797292
1443	44823.0	43314.2	0.036165273
1444	45739.1	44237.7	0.033501952
1445	46082.8	44554.8	0.031713091
1446	45953.9	44602.2	0.028782046
1447	46286.8	44778.6	0.033180725
1448	45457.9	43704.1	0.036446625
1449	45722.6	44350.9	0.030401281
1450	45710.7	43831.8	0.036605657
1451	46209.7	44342.8	0.038083679
1452	45147.5	43486.7	0.036678056
1453	46689.2	45173.5	0.032483674
1454	47100.9	45401.4	0.033508841
1455	47599.3	46142.2	0.028042382
1456	46230.7	44713.0	0.032649152
1457	45923.4	44612.2	0.028849184
1458	43156.2	41645.9	0.034054315
1459	46452.8	45002.7	0.029377204
1460	49972.8	48568.5	0.026675822
1461	46820.8	45339.0	0.03185123
1462	42332.5	40799.4	0.041323985
1463	46881.5	45203.7	0.034648805
1464	44651.8	43037.3	0.033168964
1465	45313.8	43786.0	0.033875147
1466	44672.9	42946.5	0.038900009
1467	45328.8	43861.3	0.030465558
1468	46511.8	44731.8	0.035282099
1469	47598.5	46011.5	0.028866613
1470	49629.3	48257.4	0.02639403
1471	45331.7	43821.9	0.032188839
1472	48280.4	46869.6	0.027438016
1473	42862.9	41219.0	0.040809066
1474	45573.2	43697.9	0.038051874
1475	45133.9	43487.3	0.035685922
1476	45978.0	44215.3	0.035236878
1477	43541.4	41808.8	0.039495461
1478	47789.9	46731.3	0.023722441
1479	45183.6	43364.7	0.039368133

1480	44283.6	42645.9	0.039564594
1481	45099.8	43687.3	0.032649429
1482	48350.7	46535.0	0.031735402
1483	48091.9	46679.7	0.028266015
1484	47173.8	45276.3	0.035429922
1485	42987.5	41482.8	0.034173681
1486	44818.1	43557.7	0.031792662
1487	47461.8	45470.5	0.034769512
1488	44337.8	42912.3	0.032087879
1489	48861.4	47426.0	0.026248729
1490	49608.7	48245.6	0.027999769
1491	47181.2	45233.5	0.036844937
1492	47212.4	45606.6	0.02926945
1493	44909.7	43206.7	0.03676106
1494	44765.3	43338.0	0.033960022
1495	49327.7	48257.9	0.024464168
1496	45819.0	44014.2	0.035973197
1497	48031.2	46866.3	0.026892841
1498	44225.8	42670.3	0.036575119
1499	47654.3	46505.2	0.025761853
1500	44487.0	42693.8	0.039526039
1501	46783.9	45169.0	0.032779379
1502	47550.2	45965.4	0.032855513
1503	46863.6	45421.9	0.029527523
1504	51179.2	49805.5	0.025464934
1505	47573.1	46091.5	0.029906842
1506	49415.9	47776.0	0.029946956
1507	44169.0	42278.8	0.041085661
1508	48044.0	46704.5	0.026403596
1509	45327.6	43747.4	0.034548418
1510	46618.7	44949.6	0.035594471
1511	45527.2	43979.4	0.032086901
1512	44745.4	43156.5	0.034275429
1513	45942.7	44227.0	0.035962269
1514	44703.5	43279.4	0.02944419
1515	48047.2	46482.9	0.032412062
1516	47054.0	45602.3	0.028300799
1517	45205.9	43377.6	0.041356387
1518	44686.2	43285.9	0.032661646
1519	46814.9	45323.7	0.035554292
1520	45669.2	44088.6	0.036476875
1521	47868.6	46120.9	0.032505353
1522	47296.1	45851.5	0.031520725
1523	48783.2	47499.7	0.026863407

1524	44071.8	42247.2	0.039678089
1525	46403.4	45007.4	0.031055246
1526	44337.1	42466.1	0.040493375
1527	46411.3	44625.6	0.033420215
1528	44349.0	42948.3	0.03288881
1529	44368.7	42513.2	0.038036178
1530	46293.5	44599.9	0.034856209
1531	44564.8	42926.7	0.034559257
1532	44593.1	42202.1	0.047943121
1533	46296.1	44763.2	0.033402406
1534	45491.1	44123.6	0.028286497
1535	47682.4	46033.3	0.03223142
1536	46959.1	45284.2	0.035430173
1537	42174.0	40326.2	0.043136986
1538	44992.3	43209.9	0.035246606
1539	44683.7	43136.1	0.033487108
1540	47443.6	46214.6	0.029148225
1541	44890.0	43321.5	0.034149829
1542	46014.7	44542.3	0.032063794
1543	43922.7	42132.6	0.03785241
1544	47690.6	46045.2	0.033431734
1545	49292.3	47656.1	0.030236303
1546	44732.1	43375.2	0.03006913
1547	45247.2	43559.5	0.03598177
1548	46120.9	44414.1	0.034949887
1549	45895.2	44496.5	0.029033063
1550	46664.0	45125.3	0.029859297
1551	46709.8	45167.0	0.032861433
1552	44260.0	42408.8	0.041047444
1553	44676.1	42997.9	0.034740502
1554	46614.2	45218.8	0.031596108
1555	47606.6	45945.0	0.03320597
1556	47099.2	46120.3	0.025713471
1557	46280.8	44569.2	0.033173732
1558	46771.7	44957.7	0.035513937
1559	48654.1	47093.3	0.030200248
1560	49317.7	47999.2	0.025906076
1561	47949.0	46591.4	0.030955578
1562	44881.2	43401.7	0.031960649
1563	47893.1	45999.0	0.036676895
1564	49534.4	48040.9	0.03116526
1565	47373.4	45760.7	0.031448195
1566	47857.2	46023.4	0.031859951
1567	45395.0	43951.7	0.031771555

1568	48180.1	46875.2	0.025275482
1569	45732.4	44073.6	0.032451182
1570	43413.3	41662.7	0.040542024
1571	47667.3	46045.2	0.033824668
1572	44056.3	42646.0	0.029594311
1573	47764.7	46387.5	0.028748007
1574	47821.6	46256.9	0.032784578
1575	44557.2	42980.2	0.041927532
1576	48228.4	46645.2	0.031768368
1577	45173.6	43516.3	0.034632705
1578	46329.7	45042.9	0.029495231
1579	46408.8	44786.8	0.033954376
1580	44346.1	42777.1	0.035745756
1581	47338.8	45685.3	0.034721795
1582	46699.7	45316.1	0.030790352
1583	45139.2	43596.1	0.032354299
1584	45884.0	44169.7	0.036071184
1585	45460.5	43941.2	0.03159112
1586	44191.8	42506.8	0.036730374
1587	47637.7	45781.2	0.038443035
1588	44162.0	42601.7	0.035560555
1589	44448.1	42942.1	0.032618137
1590	44409.3	42960.4	0.038711698
1591	44222.9	42704.9	0.033679602
1592	46812.8	45425.8	0.028590558
1593	49076.9	47616.3	0.026518615
1594	47837.4	46592.4	0.028895262
1595	44280.6	42422.9	0.039890862
1596	47518.9	45911.8	0.033191736
1597	44620.2	42693.8	0.038101615
1598	44527.7	42981.8	0.037094943
1599	47339.9	45736.5	0.034102977
1600	46008.0	44409.0	0.035576997
1601	47149.6	45241.0	0.037337828
1602	48984.4	47533.9	0.029290519
1603	46781.4	45365.2	0.028323727
1604	45489.2	43822.2	0.035293865
1605	42763.3	41079.6	0.039578186
1606	45603.6	43901.3	0.038337615
1607	44720.5	43182.9	0.034705079
1608	46864.3	45477.2	0.029611426
1609	48305.9	46753.6	0.030976481
1610	46679.3	44769.7	0.03590171
1611	43438.6	42152.9	0.0356453

1612	45413.3	43791.6	0.037459132
1613	43492.1	41983.8	0.037003289
1614	43632.4	42182.3	0.033201957
1615	46921.7	45310.7	0.033628049
1616	45412.2	44125.0	0.030954559
1617	44563.9	42924.0	0.037409041
1618	44968.4	43274.6	0.037298488
1619	44843.5	43076.2	0.037229357
1620	46546.5	45114.1	0.029499624
1621	44351.6	42584.6	0.038701249
1622	45947.9	44494.5	0.031694902
1623	48115.3	46654.3	0.028595637
1624	44655.7	43122.4	0.036864848
1625	47300.5	46040.0	0.026775574
1626	49707.1	48363.7	0.02792546
1627	47850.3	46336.6	0.02911782
1628	44690.5	43091.2	0.035696404
1629	44850.8	43449.3	0.030727655
1630	48926.5	47020.8	0.035291696
1631	45715.8	44427.2	0.029794879
1632	44172.4	42523.5	0.034956915
1633	43394.0	42003.1	0.035277655
1634	48322.4	46854.4	0.028923367
1635	46570.9	44920.7	0.033032288
1636	47326.8	45910.8	0.028566643
1637	46790.6	45150.4	0.03317628
1638	48325.2	47001.2	0.028181631
1639	48552.9	46916.8	0.030248516
1640	46309.6	45049.2	0.030407383
1641	48355.0	46763.1	0.031131957
1642	48108.8	46809.0	0.026364309
1643	45403.0	43704.0	0.036636047
1644	45505.7	43733.1	0.036892542
1645	47122.5	45352.4	0.03406165
1646	42621.3	40711.4	0.043864471
1647	45222.3	43713.4	0.034523743
1648	48055.5	46326.6	0.033475278
1649	46579.3	44994.6	0.030621139
1650	47966.0	46538.6	0.029077859
1651	45117.2	43711.6	0.033296013
1652	47364.5	46180.6	0.025656973
1653	46570.6	45207.4	0.03064928
1654	44398.0	42410.4	0.040536938
1655	46253.8	44659.4	0.036039196

1656	48013.6	46867.6	0.025189078
1657	47876.7	46387.1	0.030019596
1658	45089.7	43096.7	0.044925529
1659	46193.6	44671.9	0.030224517
1660	44671.3	43237.2	0.032886913
1661	47338.8	46022.1	0.029742391
1662	41483.9	39508.1	0.0454124
1663	45160.0	43821.4	0.030752066
1664	47201.7	45954.1	0.026162476
1665	44198.3	42802.0	0.034346146
1666	46414.2	44860.8	0.03397181
1667	44952.2	43078.1	0.039434991
1668	46807.6	45352.0	0.030157118
1669	46496.3	45147.3	0.026762551
1670	47958.8	46417.5	0.031701576
1671	46452.9	44804.0	0.034533181
1672	46564.7	45032.5	0.030464113
1673	45793.8	44582.0	0.026227306
1674	44051.0	42207.2	0.039713078
1675	45518.2	43976.8	0.033827799
1676	46715.4	45093.8	0.029618443
1677	44772.5	43193.1	0.034358898
1678	44219.2	42199.6	0.042748943
1679	47061.4	45526.7	0.032408271
1680	45886.0	44320.6	0.032655096
1681	48314.4	46839.9	0.027816825
1682	43964.6	42472.9	0.037087293
1683	45641.1	43782.1	0.035728293
1684	48986.5	47368.7	0.032063285
1685	45330.9	43696.6	0.0361509
1686	49178.4	47822.0	0.030760199
1687	50811.7	49447.1	0.027208451
1688	44519.7	43134.6	0.031281952
1689	46034.4	44655.4	0.032954303
1690	45614.4	44484.7	0.027740287
1691	48971.8	47270.4	0.031768108
1692	48623.7	47318.7	0.029287382
1693	45121.4	43621.2	0.032753777
1694	46530.0	45085.1	0.03038877
1695	45559.0	43768.4	0.037687404
1696	45888.3	44346.0	0.034525325
1697	45561.4	43936.5	0.03669327
1698	48700.2	47485.3	0.026281831
1699	44924.4	43417.9	0.033554411

1700	46107.1	44425.5	0.035737567
1701	49926.3	48611.0	0.023203465
1702	47134.6	45169.3	0.035444698
1703	48685.5	47298.0	0.027899972
1704	46253.8	44786.1	0.031583252
1705	45829.8	44255.4	0.033684492
1706	45531.1	43553.3	0.043089122
1707	47856.2	45974.4	0.033448326
1708	41856.0	40330.7	0.038275298
1709	46978.2	45471.6	0.031548169
1710	43714.7	41841.1	0.042417183
1711	46359.7	44779.5	0.032061946
1712	45792.8	43973.4	0.035385852
1713	47564.4	46143.7	0.028609139
1714	47169.9	45803.6	0.027463677
1715	46409.5	44946.1	0.029645018
1716	44458.9	43187.8	0.032086601
1717	47936.9	46157.3	0.032615079
1718	44784.1	42900.5	0.038949887
1719	44647.3	43203.6	0.0324687
1720	46921.6	45642.3	0.027856123
1721	46012.6	44550.1	0.031791246
1722	44007.8	42715.6	0.032530144
1723	45546.8	43658.7	0.038926341
1724	45747.3	44067.8	0.032890529
1725	46526.0	45216.8	0.030981311
1726	49356.2	48065.8	0.027050884
1727	48212.4	46678.3	0.029609519
1728	46252.6	45077.8	0.026302162
1729	45863.7	44110.2	0.032514773
1730	49335.7	47689.9	0.029093092
1731	47286.6	45791.7	0.030193725
1732	44800.7	43504.9	0.032088962
1733	46588.8	45046.4	0.032819016
1734	42421.9	40795.4	0.039250141
1735	47990.0	46448.3	0.035152037
1736	47785.8	45821.6	0.036162797
1737	47833.6	46380.2	0.029391349
1738	49096.2	47703.7	0.02642124
1739	47649.4	46141.2	0.029964939
1740	42410.9	40541.2	0.04124582
1741	46471.4	45165.0	0.027483299
1742	47662.3	45960.5	0.031812888
1743	48367.0	46843.0	0.030380867

1744	46675.4	45234.4	0.030869525
1745	46658.9	45099.1	0.029397694
1746	47905.9	46144.0	0.030221353
1747	45296.0	43497.5	0.038060923
1748	44159.3	42570.9	0.037836598
1749	43087.4	41611.2	0.034526549
1750	49343.7	48182.7	0.02503172
1751	47781.8	46281.5	0.030461299
1752	48356.5	47251.5	0.023578623
1753	46513.5	45225.5	0.029031348
1754	45420.8	43672.0	0.035480325
1755	47840.9	46531.3	0.025426574
1756	46432.4	44950.5	0.033092542
1757	43991.7	42349.9	0.036803694
1758	46826.9	45572.0	0.029083992
1759	44971.1	43206.7	0.036641079
1760	44365.0	42651.0	0.037754115
1761	46776.8	45220.2	0.030526801
1762	45874.1	44178.6	0.036355492
1763	45591.1	44026.0	0.03383608
1764	49154.1	47485.4	0.031867542
1765	45918.7	44355.2	0.034716437
1766	44535.9	42702.3	0.038980913
1767	44277.8	42667.4	0.037494052
1768	43595.3	42127.4	0.037097891
1769	44350.5	42741.9	0.039353113
1770	44827.2	43208.4	0.036881582
1771	47543.2	46135.1	0.029252699
1772	44165.6	42981.3	0.027722946
1773	47461.8	45448.2	0.038156817
1774	46111.1	44541.1	0.035231986
1775	44363.7	42674.4	0.037198001
1776	47193.4	45353.2	0.033858864
1777	46974.7	45599.0	0.032171039
1778	44621.6	43029.8	0.033290357
1779	46898.5	45456.6	0.03164974
1780	45529.6	43841.9	0.033630934
1781	43897.7	42368.2	0.035004348
1782	45668.8	44071.4	0.035107054
1783	45816.6	44416.6	0.028348293
1784	49988.6	48492.9	0.027981874
1785	46573.4	44869.5	0.03475053
1786	48299.2	46571.4	0.029885418
1787	44864.4	43026.6	0.040113727

1788	46131.6	44772.1	0.031956275
1789	51471.6	50185.1	0.024518949
1790	45829.4	44233.4	0.035613671
1791	44477.2	42927.0	0.036103986
1792	48492.4	47184.5	0.026820202
1793	48025.1	46208.3	0.033246967
1794	48793.5	47289.6	0.028776185
1795	43479.2	41561.0	0.042506257
1796	45819.0	43954.8	0.036354502
1797	47526.9	46217.0	0.030695055
1798	48899.1	47449.3	0.027554584
1799	43939.3	42276.3	0.039360785
1800	46760.7	45376.9	0.027968519
1801	46478.4	44988.4	0.031022594
1802	49381.6	47846.4	0.029416257
1803	46350.3	44574.5	0.035715553
1804	50031.3	48894.9	0.022288333
1805	47971.2	46545.6	0.027105635
1806	48095.6	47027.9	0.024680741
1807	46424.4	44702.3	0.0346555
1808	50079.5	48226.7	0.033056462
1809	46261.2	44073.3	0.044855388
1810	46827.2	45386.8	0.031025966
1811	43737.5	42229.2	0.036573587
1812	46456.3	44821.1	0.03441632
1813	44822.1	43037.1	0.037873113
1814	45447.4	43829.3	0.035587012
1815	47173.7	45721.2	0.03006814
1816	47044.7	45647.8	0.031537311
1817	48852.8	47173.5	0.0314114
1818	48530.4	47086.0	0.030602087
1819	47726.0	46346.8	0.026111643
1820	46281.1	44761.1	0.03237344
1821	47211.0	45713.9	0.031339166
1822	44594.1	42760.0	0.037700662
1823	45075.5	43236.8	0.037795949
1824	47840.8	46494.8	0.029243105
1825	49831.1	48517.2	0.024265658
1826	45500.4	44025.2	0.033710816
1827	46392.1	44524.7	0.035507122
1828	46405.5	44649.4	0.035485025
1829	43707.5	42034.8	0.038528625
1830	46316.1	44711.4	0.035424415
1831	44242.7	42452.3	0.035830254

1832	46450.9	44886.6	0.031250837
1833	47961.9	46593.9	0.026145342
1834	45254.7	43801.0	0.03207879
1835	43324.8	41711.1	0.035341317
1836	47161.4	45484.8	0.034849179
1837	46964.1	45292.6	0.03252119
1838	44646.9	43324.8	0.030407851
1839	48626.9	47357.6	0.024668416
1840	43352.8	41664.7	0.041527621
1841	49990.6	48800.8	0.023987759
1842	44028.8	42230.0	0.041365751
1843	48875.3	47170.7	0.034576298
1844	48518.6	47022.7	0.02780309
1845	44966.5	43459.4	0.034200835
1846	48563.0	47006.5	0.028388905
1847	46528.1	44964.6	0.029337339
1848	46851.5	45230.6	0.030565049
1849	44185.7	42483.1	0.036964913
1850	44505.7	42921.9	0.034386915
1851	45207.2	43568.9	0.034910989
1852	46927.1	45017.0	0.038097822
1853	46816.8	45539.1	0.029232788
1854	46950.1	45654.2	0.030770223
1855	46822.3	45278.0	0.035504411
1856	45087.6	43456.8	0.035854702
1857	45964.3	44030.5	0.03869491
1858	47239.7	45452.7	0.031983092
1859	45649.2	43779.4	0.039390337
1860	46828.9	45211.1	0.035645522
1861	46475.2	44773.2	0.033992769
1862	45818.7	44460.3	0.033175344
1863	49976.6	48632.6	0.030185898
1864	46076.1	44547.1	0.036164192
1865	45359.9	43801.3	0.032015668
1866	47209.9	45709.4	0.02787314
1867	43537.1	42026.5	0.034974788
1868	45721.0	44203.6	0.033649474
1869	45573.3	44376.4	0.032921627
1870	47842.8	46243.6	0.031559316
1871	48004.6	46566.0	0.030081096
1872	47849.3	46351.8	0.029795254
1873	50018.3	48602.6	0.027244016
1874	49267.1	47853.8	0.028393996
1875	47380.0	45682.0	0.035046347

1876	44627.6	43175.6	0.033972199
1877	47890.7	46017.9	0.034274085
1878	47621.9	46170.9	0.029866414
1879	43339.6	41568.1	0.042497317
1880	48947.0	47450.4	0.030602921
1881	44905.9	43103.6	0.038264543
1882	45524.0	43988.0	0.039672836
1883	45861.0	44639.3	0.029265894
1884	44256.5	42618.9	0.037027902
1885	47309.9	46160.1	0.025567908
1886	47483.0	45800.8	0.030279464
1887	45981.7	44480.0	0.032909384
1888	44726.0	43053.1	0.035546616
1889	45311.4	43942.0	0.032566536
1890	47532.8	46193.2	0.028424993
1891	46025.9	44411.4	0.032096051
1892	44401.4	42629.4	0.038780321
1893	47233.0	45785.0	0.031664464
1894	46338.5	44684.5	0.034180893
1895	46749.1	45224.1	0.032789325
1896	46272.5	44501.6	0.034349701
1897	44944.3	43057.9	0.040253015
1898	47221.1	45396.9	0.033953381
1899	46581.1	44775.3	0.035971727
1900	46919.0	45493.2	0.03393026
1901	44060.5	42592.0	0.035956062
1902	44002.7	42334.5	0.040510306
1903	41530.0	40127.7	0.035784493
1904	46342.5	45059.8	0.028965279
1905	46268.0	44604.7	0.033955186
1906	46688.1	45180.1	0.03297336
1907	46870.9	45275.8	0.034243363
1908	46725.6	45204.1	0.030289006
1909	44455.2	42711.8	0.039315325
1910	46326.3	44638.9	0.035791463
1911	46026.2	44396.9	0.03454666
1912	44022.1	42209.6	0.03939837
1913	48307.3	46783.7	0.028355684
1914	49247.6	48026.3	0.023796864
1915	46608.8	44954.5	0.033648459
1916	46838.1	45373.1	0.031548046
1917	44408.1	42937.6	0.032576952
1918	45264.5	43452.4	0.037950366
1919	45256.2	43564.1	0.034733855

1920	45678.4	44050.2	0.038376118
1921	45355.2	43579.0	0.03576312
1922	46756.1	45257.8	0.032032833
1923	44174.9	42587.0	0.034893172
1924	46095.6	44655.3	0.027496443
1925	45797.7	44391.8	0.032920789
1926	45516.2	43654.6	0.039240929
1927	48175.6	46811.7	0.029875845
1928	45917.8	44238.3	0.036188898
1929	40934.8	39373.4	0.038762996
1930	47193.3	46138.5	0.02299739
1931	50029.3	48712.7	0.028076687
1932	46871.9	45356.2	0.030141639
1933	45061.8	43253.8	0.036603118
1934	46269.2	44808.8	0.032000972
1935	49095.1	47546.3	0.028803434
1936	44503.7	42822.8	0.038053032
1937	45750.7	44668.9	0.029893244
1938	46795.5	45267.3	0.031328027
1939	47024.3	45595.9	0.033103131
1940	47995.6	46167.9	0.032387197
1941	45338.1	43781.5	0.0294374
1942	48466.4	47211.2	0.025635178
1943	45421.3	43626.5	0.036285953
1944	51131.5	49807.0	0.024976994
1945	46813.4	45118.9	0.035300204
1946	45518.7	44004.0	0.033887397
1947	45118.9	43418.6	0.036193875
1948	48621.0	46954.5	0.031314994
1949	46918.6	45417.3	0.030628195
1950	47106.0	45724.7	0.030748374
1951	50855.2	49681.2	0.024099563
1952	45397.1	43499.9	0.042439086
1953	46246.4	44894.3	0.027854575
1954	46771.7	45346.5	0.030814898
1955	45075.1	43227.9	0.040431046
1956	48561.4	47217.7	0.024627006
1957	44816.6	42836.0	0.042065452
1958	43499.8	42283.8	0.033921156
1959	49023.7	47534.4	0.02719178
1960	42234.9	40535.2	0.047699448
1961	44860.5	43048.3	0.036578048
1962	45907.4	44120.5	0.034959504
1963	45264.5	43616.8	0.035160739

1964	47554.1	46209.3	0.030796908
1965	44564.3	42994.4	0.035968577
1966	46657.8	45060.0	0.033362007
1967	42327.9	40239.7	0.048447393
1968	44557.9	42667.2	0.041560361
1969	46280.7	44446.5	0.036565056
1970	46721.3	45001.5	0.036886823
1971	45739.0	43955.9	0.035613091
1972	42888.9	41189.9	0.037529123
1973	47394.3	46017.9	0.030127207
1974	44174.7	42418.6	0.041408594
1975	47935.5	46653.4	0.028461815
1976	48121.2	46772.5	0.028314735
1977	48312.3	46731.1	0.030033336
1978	47479.5	45671.0	0.033694186
1979	44174.9	42559.6	0.037434304
1980	45468.8	44128.0	0.031106952
1981	46728.7	45361.3	0.029453253
1982	43503.6	42021.2	0.035851974
1983	44810.4	42861.1	0.039269944
1984	47657.4	45967.0	0.031964096
1985	48965.2	47388.5	0.030061053
1986	47451.2	45989.6	0.030345039
1987	47356.5	45910.0	0.029353267
1988	46869.2	45430.1	0.034248512
1989	50393.9	48861.9	0.026160523
1990	46466.6	44674.7	0.035552293
1991	44621.5	43179.0	0.033159365
1992	44492.0	43120.1	0.034098488
1993	45140.0	43563.5	0.031848707
1994	47675.2	45818.0	0.035445784
1995	45638.8	44101.4	0.036394147
1996	46877.3	45629.0	0.030767702
1997	47088.9	45497.7	0.031513068
1998	48383.7	47042.6	0.02648213
1999	46496.8	45124.9	0.032962061
2000	46712.6	44916.2	0.035910256
2001	44854.3	43225.8	0.034598594
2002	46579.4	45008.4	0.037015895
2003	44426.5	42676.5	0.036972743
2004	48196.9	46662.6	0.029935113
2005	47177.6	45868.8	0.027958673
2006	43553.4	41969.5	0.037698462
2007	49161.5	47672.5	0.029264742

2008	45932.3	44420.8	0.028813533
2009	45663.7	44044.5	0.036708358
2010	46313.1	44780.4	0.031785745
2011	44724.2	43083.0	0.035370181
2012	46981.5	45502.0	0.029596173
2013	42467.5	40800.3	0.040168984
2014	46672.5	44943.4	0.033108458
2015	45985.9	44271.3	0.033087222
2016	48097.8	46551.7	0.031359126
2017	47291.8	45833.9	0.03084894
2018	46535.6	45011.2	0.02888535
2019	47507.6	46103.2	0.028556275
2020	48505.2	47117.6	0.026328996
2021	46430.8	44965.2	0.033863667
2022	47567.4	46235.1	0.027369063
2023	45776.1	44076.3	0.036607402
2024	49223.2	47935.7	0.024371708
2025	46507.3	44786.5	0.033177955
2026	46409.4	44717.7	0.034448461
2027	46784.3	45289.5	0.035686106
2028	47957.1	46409.1	0.030114271
2029	46301.3	44652.5	0.03584265
2030	46999.1	45599.6	0.028376685
2031	46955.8	45399.4	0.029014185
2032	47381.7	45954.3	0.026376668
2033	45220.9	43479.4	0.033654653
2034	47117.1	45768.0	0.026398539
2035	45935.6	44521.7	0.029573257
2036	45094.9	43541.7	0.033566755
2037	46726.2	45331.4	0.030058947
2038	42062.6	40591.4	0.036742563
2039	46002.7	44645.3	0.030091964
2040	44664.5	43012.5	0.034575418
2041	44132.5	42321.9	0.037839636
2042	49724.2	48206.6	0.029771985
2043	45438.9	43804.9	0.033400133
2044	48106.7	46807.5	0.028154798
2045	47605.9	45953.8	0.033617774
2046	48349.9	46773.8	0.031796118
2047	46286.6	44628.7	0.032700725
2048	44165.4	42442.3	0.040606953
2049	47060.9	45309.3	0.033446319
2050	50209.3	48760.5	0.027851033
2051	48831.3	47242.9	0.030900701

2052	45264.4	43875.9	0.030497662
2053	43222.3	41941.9	0.034312514
2054	46915.1	45603.6	0.025013635
2055	41832.4	40032.5	0.041645836
2056	47328.0	45918.7	0.02834094
2057	45111.7	43328.4	0.036497431
2058	47677.0	45706.5	0.036479003
2059	48166.9	46490.1	0.032233242
2060	44154.4	42939.6	0.034013725
2061	46483.0	44856.2	0.033966169
2062	45601.9	44026.1	0.032211978
2063	44335.3	42781.7	0.033821282
2064	44391.5	43010.4	0.032621269
2065	43256.3	41761.3	0.03575524
2066	47268.8	45992.5	0.031950793
2067	47268.5	45615.8	0.034347046
2068	47014.5	45269.6	0.033190562
2069	48588.6	46900.7	0.031813174
2070	45418.6	43901.1	0.032163963
2071	46370.2	44821.0	0.030269603
2072	44097.3	42542.3	0.035890466
2073	43045.7	41578.4	0.035703129
2074	48627.1	46817.9	0.033368741
2075	47654.2	46063.0	0.031649423
2076	45585.9	43899.9	0.034080223
2077	42939.0	41454.2	0.037430133
2078	45431.7	44031.8	0.031400039
2079	47457.4	45902.1	0.031350808
2080	48499.7	47580.1	0.022997622
2081	47320.0	45794.0	0.034223993
2082	46893.2	45209.8	0.033885907
2083	48626.2	47149.6	0.030544986
2084	47108.5	45739.5	0.029013543
2085	44701.6	43096.3	0.039545561
2086	42457.7	40345.8	0.048273722
2087	46955.6	45631.1	0.030219263
2088	45362.4	43767.1	0.035680185
2089	45042.2	43276.9	0.037095661
2090	48804.0	47340.9	0.026911335
2091	49195.8	47874.5	0.026476286
2092	45408.2	43769.6	0.036241528
2093	45850.9	43948.0	0.03718106
2094	45208.0	43633.9	0.034864332
2095	45114.5	43607.3	0.033166832

2096	45665.4	44140.3	0.032999111
2097	48165.4	46519.3	0.031247289
2098	46314.2	44755.3	0.031010711
2099	45162.2	43687.5	0.031595389
2100	47886.7	46351.9	0.029054854
2101	48389.3	46705.3	0.035614192
2102	46365.7	44430.0	0.038392473
2103	44473.2	42853.0	0.033807477
2104	46543.3	45262.0	0.029534134
2105	46996.3	45541.2	0.032191209
2106	47339.0	45635.2	0.034334387
2107	47635.0	46436.2	0.027653878
2108	46132.7	44521.0	0.032067256
2109	46709.5	45348.1	0.029003622
2110	46353.8	45110.1	0.028271456
2111	46552.7	45352.8	0.029013625
2112	46160.2	44450.0	0.035376326
2113	48747.3	47371.8	0.028084285
2114	44252.6	42514.9	0.037050211
2115	43775.2	42156.2	0.035074563
2116	47236.1	45570.6	0.03267029
2117	45975.3	44368.5	0.032737045
2118	45920.3	44197.3	0.036533907
2119	46308.5	44643.6	0.032770509
2120	46967.2	45371.2	0.034629639
2121	42697.6	40850.6	0.038887789
2122	46659.4	45072.5	0.033000652
2123	42935.6	41111.1	0.036822742
2124	47277.9	45798.5	0.028617689
2125	48292.4	46815.2	0.028710551
2126	48389.2	46974.3	0.029355805
2127	44442.6	42873.9	0.034611871
2128	44581.2	43086.9	0.036081913
2129	47348.8	45354.8	0.037888107
2130	46012.3	44386.4	0.037240584
2131	46121.0	44554.7	0.032162739
2132	43267.1	41495.2	0.040934165
2133	48487.7	46890.4	0.030321546
2134	46830.0	45203.0	0.032197596
2135	43253.6	41652.7	0.038334388
2136	47964.6	46478.3	0.029751444
2137	43966.5	42234.0	0.03855412
2138	47045.7	45659.9	0.028264441
2139	44399.3	42966.2	0.032289205

2140	48495.2	47208.6	0.027133883
2141	45037.9	43270.3	0.038469275
2142	46650.3	45290.2	0.02949188
2143	45123.2	43406.3	0.037694609
2144	45005.1	43686.6	0.028724457
2145	44174.1	42379.4	0.03707469
2146	46812.9	45004.4	0.03492973
2147	43108.4	41718.0	0.033724349
2148	46939.0	45295.0	0.031540015
2149	44162.0	42319.7	0.040306901
2150	46538.6	45005.9	0.030841097
2151	46120.0	44195.8	0.035813754
2152	45995.6	44348.0	0.033510808
2153	44505.8	42534.3	0.04122681
2154	47400.6	45734.1	0.031597703
2155	45498.2	43460.1	0.039083906
2156	47094.3	45608.4	0.030009532
2157	46114.5	44495.8	0.036525515
2158	43882.9	42279.2	0.03724112
2159	43803.0	41994.2	0.03824728
2160	44208.7	42658.7	0.034389011
2161	44384.7	42820.7	0.039273718
2162	42288.8	40698.5	0.039900805
2163	46940.0	45570.4	0.02899093
2164	47139.6	45527.8	0.030542227
2165	44155.3	42703.7	0.032769966
2166	45770.9	44074.8	0.036328776
2167	47986.2	46633.7	0.027478164
2168	46473.7	44867.3	0.034197906
2169	44072.3	42477.9	0.034580553
2170	46159.8	44919.3	0.029810278
2171	47248.1	45780.8	0.029516688
2172	43149.2	41490.9	0.039417387
2173	45091.2	43461.4	0.035461615
2174	46623.7	44923.6	0.033128804
2175	43954.5	41988.4	0.043441751
2176	45814.1	43792.5	0.038198094
2177	47556.7	45633.3	0.033495809
2178	45824.3	44317.2	0.033541203
2179	47084.9	45394.0	0.034961209
2180	47000.3	45562.7	0.032807756
2181	45275.7	43721.2	0.034649149
2182	41748.8	39682.4	0.046697365
2183	44683.0	43140.3	0.035525887

2184	47939.0	46294.1	0.03192845
2185	47642.6	46203.3	0.031157812
2186	43842.1	42162.1	0.039873496
2187	45012.8	43285.8	0.035226085
2188	42189.6	40592.4	0.040958029
2189	46965.8	44896.4	0.039364302
2190	44309.1	42809.5	0.036992868
2191	44298.1	42738.4	0.03488321
2192	45393.8	43440.3	0.039872391
2193	49816.5	48379.7	0.028590404
2194	45819.8	43922.7	0.037339376
2195	46754.0	44897.4	0.036917946
2196	48049.0	46285.7	0.033686619
2197	43264.6	41704.7	0.035588817
2198	47188.1	45866.6	0.028937284
2199	43685.6	42208.7	0.036222428
2200	47142.5	45301.3	0.034069218
2201	44778.1	43017.6	0.035191931
2202	44580.6	43088.4	0.037846861
2203	45092.8	43595.5	0.033194935
2204	46259.1	44851.3	0.03299063
2205	45410.3	43701.3	0.034593303
2206	45139.4	43530.3	0.031081076
2207	44463.0	42335.2	0.042331604
2208	44177.4	42668.9	0.034605152
2209	46593.3	44812.9	0.034958636
2210	45922.1	44193.4	0.035159217
2211	45351.3	43814.8	0.032696182
2212	50688.4	49422.5	0.024947346
2213	43355.6	41479.2	0.041227485
2214	47834.7	46382.2	0.031283206
2215	44698.2	43191.2	0.03318496
2216	47208.8	45562.8	0.031806727
2217	45725.7	44363.6	0.032638472
2218	45378.5	43455.8	0.03809368
2219	47984.4	46471.9	0.02766194
2220	48360.3	46594.6	0.032524301
2221	47789.4	46270.9	0.031011067
2222	47421.1	46021.3	0.028832565
2223	46197.7	44422.1	0.036245854
2224	47534.7	46460.7	0.024910714
2225	46507.5	45268.3	0.030000669
2226	45327.0	44038.5	0.031532032
2227	47919.2	46585.5	0.027022164

2228	44498.1	42752.1	0.040457533
2229	49366.8	48091.1	0.024113762
2230	44459.2	42310.6	0.042404452
2231	46319.8	44563.3	0.0346436
2232	45875.2	44172.4	0.035778481
2233	43738.1	42412.8	0.032717905
2234	47410.2	45865.4	0.032443972
2235	46093.6	44733.2	0.031723198
2236	44787.6	43076.7	0.034982348
2237	44432.1	42673.8	0.041481013
2238	45238.8	43410.9	0.036939716
2239	48367.1	46981.1	0.028580107
2240	49676.2	48417.7	0.026830059
2241	48162.9	46582.5	0.033870025
2242	50054.0	48735.9	0.027686038
2243	48035.8	46434.6	0.032047629
2244	46099.0	44346.8	0.035680304
2245	49451.5	48063.8	0.027858315
2246	45572.3	43846.2	0.037971034
2247	45994.3	44607.3	0.031508384
2248	44918.2	43460.2	0.031110618
2249	45168.3	43468.8	0.03581124
2250	46923.8	45841.8	0.023334405
2251	46263.2	44609.9	0.03076038
2252	43927.0	42387.1	0.035803547
2253	45481.3	43969.7	0.033552908
2254	45279.1	43577.2	0.035038381
2255	48728.7	47105.2	0.032545832
2256	42962.2	41179.5	0.040368212
2257	46253.0	44817.4	0.031259842
2258	44787.6	43236.5	0.03244124
2259	46610.1	45049.2	0.03383668
2260	44058.0	42513.5	0.034804195
2261	42940.7	41443.7	0.038102536
2262	44101.2	42887.5	0.035932584
2263	46293.4	44724.1	0.033777834
2264	44535.7	43032.9	0.034400137
2265	47149.6	45884.6	0.028620658
2266	45902.6	44294.8	0.03232109
2267	49447.4	47965.2	0.029144314
2268	45796.5	44195.3	0.032805919
2269	49463.8	48365.7	0.022814375
2270	44893.8	43386.4	0.034477389
2271	42986.5	41271.7	0.03890942

2272	44840.5	43297.6	0.032444574
2273	45380.6	43819.9	0.034000651
2274	45700.6	44412.8	0.029646829
2275	45944.0	44330.1	0.036758258
2276	49406.1	48163.3	0.025027677
2277	47195.4	45962.3	0.028145506
2278	47037.5	45259.8	0.033674964
2279	44092.4	42685.9	0.033733962
2280	46684.0	45016.0	0.034191464
2281	46706.3	45055.0	0.031300715
2282	45168.5	43256.0	0.04079199
2283	42914.2	41356.8	0.039417455
2284	44110.9	42597.3	0.035035936
2285	48783.7	47213.3	0.029286296
2286	47996.8	46436.4	0.033023048
2287	45779.7	44528.8	0.028118231
2288	44428.9	43110.4	0.032099903
2289	48358.8	46879.2	0.027642209
2290	48708.8	46968.0	0.03227502
2291	44196.9	42698.3	0.034354568
2292	48129.6	46661.5	0.033998766
2293	46948.5	45124.5	0.03706218
2294	49479.5	48147.0	0.027386772
2295	48585.7	46911.7	0.032900945
2296	46101.2	44721.9	0.031173263
2297	46328.8	44686.8	0.035538125
2298	47121.2	45466.8	0.034719512
2299	46909.2	45415.8	0.028735753
2300	46189.6	44716.0	0.03465043
2301	45544.7	43989.7	0.035929982
2302	49714.0	48296.8	0.027739181
2303	43976.9	42101.6	0.040206926
2304	50181.3	48616.3	0.028396474
2305	43095.8	41440.4	0.034281345
2306	45059.1	43601.5	0.035966228
2307	42884.6	41428.7	0.035419547
2308	46766.4	45500.6	0.029036844
2309	46919.7	45257.6	0.034589293
2310	46474.3	45105.5	0.029090277
2311	44538.4	43214.8	0.032073011
2312	46356.2	44799.6	0.030787175
2313	45284.8	43617.9	0.035556506
2314	46839.7	44976.4	0.03533835
2315	45504.1	43997.2	0.032258319

2316	45173.2	43414.7	0.03597758
2317	49325.9	47862.5	0.030025618
2318	45919.4	44527.1	0.032003494
2319	48333.5	46906.0	0.029416635
2320	44630.4	43282.7	0.03156102
2321	47841.0	46200.1	0.033985208
2322	46724.4	45072.8	0.032011552
2323	42664.0	41130.9	0.036023138
2324	46626.7	45039.1	0.031969186
2325	48145.6	46430.8	0.033569376
2326	46873.8	45298.7	0.032044194
2327	44782.0	43319.2	0.034858138
2328	45450.5	43921.9	0.034982802
2329	45288.2	43627.5	0.036667589
2330	46915.7	45470.1	0.029632031
2331	45156.5	43269.3	0.038089217
2332	46104.5	44586.1	0.033688671
2333	46406.9	44726.2	0.034438479
2334	44592.8	42944.3	0.035174788
2335	48114.3	46529.9	0.029670517
2336	47258.4	45512.2	0.032996779
2337	43278.7	42012.3	0.033222824
2338	45149.6	43339.7	0.038111495
2339	44337.2	43063.4	0.030043822
2340	45435.2	43693.9	0.036257039
2341	43949.6	42219.9	0.038197603
2342	47058.9	45323.8	0.032280696
2343	44156.1	42178.9	0.040732162
2344	47309.5	45966.2	0.030392592
2345	45339.2	43680.0	0.038149477
2346	43750.8	42068.2	0.035972339
2347	43805.7	41962.6	0.038459009
2348	44775.8	43141.5	0.034088756
2349	44615.9	43250.3	0.032039267
2350	43676.3	42168.8	0.033062111
2351	47726.8	46173.5	0.031943243
2352	49004.9	47389.6	0.029386861
2353	43457.3	42034.9	0.034465004
2354	46910.5	45178.4	0.032820068
2355	47873.9	46530.8	0.029896175
2356	50086.7	48637.5	0.026794864
2357	49165.5	47538.9	0.03037619
2358	47323.8	45822.7	0.029390339
2359	44372.2	42674.2	0.035776466

2360	48709.4	47045.9	0.030716195
2361	46108.2	44856.1	0.029115515
2362	46971.8	45677.4	0.028061363
2363	49318.5	48066.9	0.025402374
2364	47957.5	46253.8	0.032964319
2365	46795.8	44893.9	0.035374878
2366	43030.1	41548.6	0.036272596
2367	46755.8	45284.7	0.030766528
2368	45373.4	43625.1	0.037017756
2369	46582.9	44989.9	0.034764663
2370	45114.2	43596.4	0.031181116
2371	45439.0	43994.6	0.031254797
2372	48670.2	47347.3	0.028243964
2373	45509.4	43854.8	0.035355419
2374	46279.5	44868.1	0.032357107
2375	45930.4	44511.0	0.031201279
2376	44354.3	42655.3	0.037321384
2377	46828.4	45502.0	0.026545139
2378	45847.8	44398.4	0.029616229
2379	46554.9	45323.9	0.027971989
2380	47175.7	45559.6	0.031803734
2381	48084.8	46725.5	0.027297826
2382	45093.1	42975.3	0.042878862
2383	47347.7	45607.3	0.035467261
2384	45866.0	44366.6	0.031836921
2385	46114.9	44531.4	0.034724162
2386	44319.5	42935.5	0.032567409
2387	44147.2	42333.1	0.036919178
2388	49230.7	47755.7	0.028484274
2389	46261.0	44710.5	0.033342428
2390	50581.3	49511.1	0.023365815
2391	44989.4	43358.2	0.033512116
2392	48196.3	46551.5	0.032501459
2393	45306.9	43898.4	0.032200327
2394	44063.8	42531.6	0.034138973
2395	46040.4	44464.7	0.032984619
2396	48359.2	46982.7	0.029752281
2397	47511.6	45909.2	0.032590525
2398	46750.5	45480.0	0.02624557
2399	46326.8	44655.0	0.033922812
2400	46750.7	44794.9	0.036207373
2401	46239.9	44469.4	0.037803955
2402	43707.4	41835.4	0.036867675
2403	45375.8	43765.7	0.034844628

2404	49341.4	48049.5	0.027772205
2405	45886.3	44167.6	0.035022016
2406	44440.5	42972.9	0.03194301
2407	47245.0	45500.7	0.033344173
2408	47315.1	45590.5	0.031440867
2409	46034.3	44242.1	0.03916155
2410	44403.2	42746.5	0.036343039
2411	46224.4	44483.6	0.035742635
2412	44594.7	43255.0	0.032147561
2413	44854.3	43330.5	0.032093798
2414	43112.4	41506.6	0.037656733
2415	46349.6	44557.9	0.03701695
2416	46381.3	44577.2	0.036179843
2417	48671.8	47032.2	0.032311123
2418	44309.1	42520.7	0.040096041
2419	48313.6	46535.0	0.032809382
2420	46756.3	44904.6	0.03932495
2421	42651.5	40923.2	0.041644202
2422	47165.1	45507.9	0.032651657
2423	46937.9	45470.9	0.029058405
2424	47252.6	45889.9	0.03152193
2425	42306.6	40568.9	0.042544029
2426	46380.7	44838.1	0.035526368
2427	44740.2	43147.0	0.034864221
2428	45101.7	43539.9	0.03391272
2429	46586.5	45185.6	0.030140524
2430	44431.8	42790.9	0.037098931
2431	44376.2	42601.0	0.038666728
2432	44677.2	43159.5	0.033809674
2433	44834.9	43279.8	0.030765226
2434	46201.8	44761.9	0.032045963
2435	44587.5	43104.1	0.034420315
2436	43723.0	42192.3	0.037071258
2437	48555.4	47168.7	0.028454291
2438	43698.7	42342.1	0.034905088
2439	45789.1	44427.9	0.030404217
2440	45720.5	44168.8	0.032852618
2441	43178.3	41683.5	0.039947004
2442	46453.6	44766.3	0.036047413
2443	45569.8	44253.4	0.031013412
2444	48812.7	47183.8	0.0309573
2445	45517.3	44260.7	0.028740939
2446	43236.0	41411.1	0.041619721
2447	46254.6	44612.3	0.032221994

2448	48942.8	47620.6	0.028443973
2449	42418.6	40847.6	0.037276962
2450	48691.9	47347.6	0.030060005
2451	49549.8	47571.4	0.035018846
2452	45574.3	44273.8	0.031174739
2453	43583.3	41957.8	0.036311879
2454	46156.7	44471.2	0.031881871
2455	43036.3	41794.1	0.031250116
2456	50548.7	49303.6	0.025603777
2457	47497.0	46116.9	0.028983255
2458	47879.4	46312.2	0.030776733
2459	44821.2	42593.6	0.043449589
2460	46298.6	45054.5	0.02776891
2461	43020.9	41685.9	0.035410236
2462	46352.3	44794.3	0.032560943
2463	48151.2	46573.0	0.030738176
2464	50404.3	49118.7	0.024360488
2465	50491.6	49017.6	0.028712393
2466	48467.5	46723.8	0.032209225
2467	48238.7	46435.7	0.033228553
2468	49757.6	48572.6	0.026561694
2469	47302.1	45646.7	0.033662832
2470	42063.1	40277.2	0.040614527
2471	45923.7	44440.9	0.034148623
2472	47154.0	45485.4	0.034530625
2473	46696.7	45171.3	0.033910748
2474	48252.6	46944.3	0.028208276
2475	49839.2	48420.9	0.026362222
2476	47280.0	45483.8	0.033917474
2477	45364.8	43577.7	0.03587194
2478	43766.9	42514.9	0.031167639
2479	45467.0	44070.4	0.033860873
2480	45424.2	43730.6	0.038155347
2481	49210.5	47482.5	0.032516243
2482	43608.4	42179.3	0.033718868
2483	45675.9	44066.7	0.029935396
2484	44625.0	42975.9	0.037847427
2485	47412.4	45690.9	0.029792714
2486	44163.8	42398.1	0.036064427
2487	45959.1	44166.7	0.035316136
2488	48007.9	46213.9	0.034498647
2489	45070.9	43531.6	0.033791127
2490	44492.4	43040.4	0.031965883
2491	48204.0	46794.7	0.027768719

2492	49211.9	47586.2	0.030860032
2493	42305.9	40646.3	0.040283374
2494	49420.6	48088.7	0.026486597
2495	44200.4	42525.7	0.04118264
2496	46437.6	44807.8	0.033224289
2497	44461.9	42758.7	0.035929372
2498	44801.5	42863.5	0.044143984
2499	44328.6	42633.8	0.039176031
2500	44760.8	42656.7	0.042756527
2501	47789.3	46232.2	0.029279792
2502	47864.9	46288.1	0.030719938
2503	46684.0	45013.9	0.032916356
2504	45556.7	44053.0	0.031470856
2505	47336.0	45646.6	0.035466336
2506	47733.4	45978.9	0.032677648
2507	45182.3	43788.8	0.030326017
2508	44357.2	42889.2	0.031960128
2509	44563.3	43001.2	0.034864126
2510	42968.5	41111.9	0.039331391
2511	48491.8	47312.3	0.025428271
2512	45763.9	44271.4	0.032553135
2513	45729.4	44344.5	0.031982567
2514	46843.8	45118.0	0.035450705
2515	45481.9	44040.3	0.033089271
2516	45953.7	44246.3	0.036261613
2517	45591.2	44079.1	0.032671645
2518	45931.7	44196.8	0.036371635
2519	47727.9	45973.2	0.033938597
2520	46547.0	45111.1	0.030185755
2521	47211.1	45614.0	0.031208452
2522	48440.1	47144.5	0.025076214
2523	45301.0	43832.5	0.031385156
2524	44769.5	42850.9	0.03684416
2525	45444.0	44352.1	0.02752131
2526	46379.3	44774.8	0.031617412
2527	45684.4	44078.1	0.035733491
2528	44788.5	43409.4	0.028988905
2529	49921.7	48800.6	0.024306479
2530	47717.5	46182.7	0.03496721
2531	49118.1	47844.0	0.025790153
2532	45917.5	44618.8	0.02872825
2533	42865.8	41290.4	0.038957333
2534	46097.7	44354.5	0.032200219
2535	45810.0	44180.6	0.034215892

2536	46839.5	45321.9	0.031286848
2537	46152.2	44635.1	0.033948857
2538	45578.7	43582.2	0.038813901
2539	47287.8	45603.4	0.031893461
2540	46488.8	45069.8	0.028977976
2541	45656.8	43966.5	0.036285414
2542	44456.4	42819.7	0.037565594
2543	47989.2	46761.6	0.027820466
2544	42768.7	40750.0	0.045118237
2545	45859.9	44384.9	0.032637216
2546	46714.3	45048.7	0.033467998
2547	42042.9	40726.8	0.033641877
2548	47538.2	46137.4	0.028793493
2549	47665.6	45895.2	0.032575988
2550	45446.3	43738.5	0.035399575
2551	47229.6	45985.3	0.02584279
2552	44646.0	42866.2	0.038945694
2553	50636.3	49535.2	0.024351069
2554	47232.6	45585.7	0.032448809
2555	49056.9	47559.4	0.031411865
2556	47545.5	46010.1	0.029336545
2557	47486.3	46058.1	0.030170271
2558	46633.3	45375.1	0.028469021
2559	46510.9	45022.0	0.032549904
2560	45077.5	43394.8	0.035523436
2561	45199.1	43905.0	0.030385611
2562	43680.2	42162.5	0.036557356
2563	45735.2	44131.5	0.03329671
2564	47343.9	46182.1	0.023912292
2565	46823.5	45289.8	0.031890897
2566	46125.3	44328.4	0.035567546
2567	44607.1	42999.9	0.038504085
2568	46635.8	45069.9	0.033065122
2569	45095.6	43530.3	0.033396755
2570	48281.9	46881.0	0.026051364
2571	46453.1	45004.2	0.029716765
2572	45483.2	43978.8	0.033468701
2573	49010.3	47181.5	0.035282229
2574	46264.6	44677.6	0.03444799
2575	47955.1	46354.6	0.029862835
2576	46347.0	44776.6	0.031704468
2577	47679.4	46144.1	0.03014483
2578	46815.3	45318.1	0.030227612
2579	45066.9	43495.4	0.033568003

2580	47916.2	46244.0	0.030427265
2581	43717.8	42385.1	0.036751181
2582	47383.5	45745.4	0.036483069
2583	47876.4	46495.0	0.028196664
2584	47058.5	45477.8	0.033274938
2585	42453.8	41010.0	0.034156716
2586	47475.5	45916.1	0.030169452
2587	45740.5	43797.0	0.036693468
2588	43687.2	41976.1	0.034130781
2589	46333.9	44759.6	0.031017296
2590	45417.9	43791.5	0.034945401
2591	44657.4	42718.3	0.042583672
2592	46195.7	44488.0	0.035174006
2593	44572.9	43243.7	0.032339044
2594	46233.4	45007.7	0.029967241
2595	49982.0	48426.8	0.028294606
2596	46293.1	44574.2	0.036225141
2597	48427.5	46841.4	0.029587813
2598	39917.9	37998.7	0.048999524
2599	46926.5	45389.0	0.030623238
2600	47424.6	46047.8	0.027790758
2601	46973.0	45323.5	0.033920852
2602	46048.2	44701.7	0.032305716
2603	45709.2	43932.8	0.0380169
2604	46783.7	45178.9	0.030164539
2605	45829.3	44539.1	0.031863227
2606	47370.8	45692.9	0.032789912
2607	48106.1	46330.6	0.034333837
2608	48167.9	46621.0	0.028473802
2609	47558.8	45951.9	0.032443812
2610	46117.7	44261.9	0.037838378
2611	47122.6	45689.0	0.030009684
2612	45458.1	43980.7	0.03460076
2613	45241.0	43515.8	0.036110569
2614	43270.7	41460.3	0.040315673
2615	45860.8	44422.9	0.032285749
2616	44334.8	42827.6	0.036545056
2617	45938.4	44368.8	0.031893017
2618	46939.0	45565.6	0.026887976
2619	48364.2	46709.5	0.03125003
2620	50453.4	49244.7	0.025050474
2621	47477.8	46024.0	0.030629324
2622	47524.5	46200.1	0.025344066
2623	48963.2	47298.6	0.035153655

2624	45241.6	43631.2	0.034489284
2625	44264.7	42867.3	0.035849901
2626	47419.7	45854.3	0.031500506
2627	48792.6	47264.5	0.030476684
2628	50188.2	48415.8	0.032808911
2629	44920.0	43246.9	0.032547118
2630	49925.3	48476.9	0.026337458
2631	46603.3	45105.1	0.029493833
2632	49328.3	47540.3	0.032748625
2633	47753.0	46122.1	0.02939794
2634	43066.8	41399.0	0.038094766
2635	43848.8	42529.7	0.033667749
2636	47923.0	46453.3	0.028885148
2637	45817.9	44168.3	0.031414431
2638	44668.0	42685.2	0.042838066
2639	46731.4	45147.9	0.03376922
2640	48391.2	46687.7	0.032841081
2641	45522.1	43684.7	0.036776127
2642	49284.5	47849.0	0.029033896
2643	42814.1	41114.6	0.040256706
2644	44820.7	42947.5	0.040177054
2645	46132.8	44707.8	0.031219547
2646	45848.7	44427.7	0.035168943
2647	44949.5	43032.9	0.038873528
2648	46907.7	45423.5	0.030454949
2649	49182.0	47517.3	0.030790845
2650	49988.8	48672.7	0.02602021
2651	44969.8	42849.2	0.043718034
2652	47923.9	46622.1	0.028754246
2653	45900.4	44274.8	0.034392368
2654	43047.5	41721.9	0.031072254
2655	44788.7	43372.4	0.033318185
2656	43654.3	42217.6	0.036272179
2657	48784.9	47359.1	0.027804083
2658	46340.8	44885.2	0.030316339
2659	47108.8	45589.0	0.031684447
2660	47655.5	46054.9	0.032080436
2661	48344.3	46933.3	0.027009473
2662	45495.2	43872.3	0.036800988
2663	46152.2	44322.2	0.037486991
2664	46738.2	45145.7	0.030559009
2665	47058.0	45731.8	0.029958346
2666	45947.4	44147.0	0.033065238
2667	48080.6	46620.5	0.032451224

2668	46380.9	45050.4	0.029078804
2669	45746.6	44116.2	0.033558525
2670	45717.7	44322.8	0.030132422
2671	44901.8	43459.7	0.031720731
2672	44691.4	43279.4	0.034447347
2673	45903.5	44201.4	0.035730296
2674	47578.1	45805.6	0.031652716
2675	48431.3	47005.5	0.028834531
2676	44990.3	43343.8	0.037659943
2677	43256.8	41520.5	0.041976319
2678	45287.0	43928.3	0.033386001
2679	44859.1	43198.6	0.037909127
2680	48105.1	46797.7	0.02838891
2681	49182.8	47775.4	0.031237042
2682	47114.0	45514.3	0.032481965
2683	41760.8	39625.3	0.049891919
2684	48760.9	47346.0	0.025761156
2685	43087.5	41380.9	0.040022071
2686	44033.3	42744.9	0.030715162
2687	47067.1	45462.9	0.033176068
2688	42338.0	40390.0	0.043402066
2689	47074.2	45628.4	0.029403849
2690	46071.5	44572.2	0.032854532
2691	49498.3	48312.7	0.026194608
2692	44477.5	42925.2	0.031403186
2693	48849.0	47302.9	0.029757917
2694	46848.0	45176.8	0.032166468
2695	45761.1	44318.4	0.032243203
2696	46504.9	44749.8	0.03561207
2697	49570.0	48049.2	0.026458981
2698	43145.4	41475.3	0.038669547
2699	48116.1	46820.8	0.031386552
2700	47175.1	45630.6	0.031019948
2701	48754.8	46944.6	0.033381472
2702	47536.4	45602.4	0.038413591
2703	49053.4	47483.0	0.028823346
2704	46001.9	44453.3	0.032178352
2705	48060.4	46540.7	0.029817586
2706	44846.9	42938.8	0.037592505
2707	42396.1	40482.3	0.040736008
2708	49744.7	48419.4	0.024108221
2709	47529.7	45867.6	0.033826687
2710	46082.0	44327.1	0.037096602
2711	42880.3	41367.5	0.037831755

2712	48017.7	46461.3	0.032728955
2713	43680.6	41825.7	0.038010719
2714	45476.1	44010.6	0.031341778
2715	46799.7	44890.4	0.037110268
2716	46337.0	44922.0	0.030721334
2717	42818.3	41468.0	0.035623021
2718	43229.4	41271.2	0.041467402
2719	48587.0	47136.6	0.02785739
2720	47158.1	45720.3	0.031467005
2721	50486.7	49296.3	0.022209453
2722	46362.2	44990.5	0.03179397
2723	47033.2	45227.3	0.033114767
2724	44185.6	42474.8	0.035311845
2725	43776.0	42265.4	0.036235254
2726	47268.2	45815.8	0.031458148
2727	45537.3	43984.1	0.03534409
2728	46612.9	44866.9	0.035031946
2729	48843.6	47372.2	0.029792347
2730	46328.8	44857.7	0.033817613
2731	44756.8	43183.5	0.032842541
2732	46758.1	45107.9	0.033290335
2733	48189.2	46543.3	0.030810168
2734	41729.1	39901.0	0.04663658
2735	48063.3	46710.8	0.026386776
2736	45966.6	44411.1	0.034724592
2737	45904.4	44393.7	0.031212692
2738	46516.2	45040.9	0.030202552
2739	45928.9	44465.4	0.031935306
2740	47129.9	45212.5	0.03744772
2741	46364.4	44517.8	0.037418446
2742	47584.1	46000.6	0.030244606
2743	48501.8	46972.3	0.030240029
2744	46914.6	45403.4	0.030135048
2745	46571.6	45306.6	0.030064779
2746	45703.0	44393.4	0.031798278
2747	45507.3	43780.8	0.033883968
2748	49473.0	47911.1	0.029467694
2749	47642.0	46238.6	0.028924288
2750	48951.5	47258.0	0.031928654
2751	46803.1	45512.3	0.028256906
2752	44792.8	43232.6	0.034816058
2753	43189.1	41580.9	0.04029531
2754	45561.6	44328.5	0.029666743
2755	47398.1	46176.5	0.026050077

2756	47492.0	45846.6	0.033452257
2757	46165.9	44904.4	0.031276749
2758	46754.5	45328.9	0.033497796
2759	46575.7	44798.9	0.034262694
2760	48282.8	46830.1	0.026838702
2761	49618.8	47955.3	0.028777189
2762	46543.2	44989.5	0.033056111
2763	45250.4	43641.8	0.034893533
2764	48602.3	47032.4	0.031103918
2765	42106.1	40265.0	0.042637583
2766	47988.6	46735.9	0.028068204
2767	48615.5	47173.6	0.027210085
2768	46690.6	45171.1	0.031795272
2769	45864.1	44262.6	0.035562091
2770	47048.2	45592.7	0.029570876
2771	46375.9	44774.5	0.032595196
2772	48108.1	46536.6	0.02939423
2773	46100.8	44416.1	0.032293986
2774	45695.1	44341.3	0.032133496
2775	47459.5	46053.0	0.030632739
2776	47892.9	46729.5	0.024031661
2777	47119.9	45511.9	0.030115295
2778	45582.7	43931.4	0.035862241
2779	47368.0	46136.1	0.027628707
2780	46488.7	45067.2	0.030624827
2781	45766.0	44190.0	0.034208455
2782	44504.9	42991.4	0.034098318
2783	46997.5	45633.8	0.03139222
2784	47508.0	45664.9	0.038450564
2785	46489.6	44938.5	0.032339136
2786	48491.9	47394.7	0.024185015
2787	43569.0	41980.5	0.03575153
2788	48531.6	47346.1	0.024742345
2789	50453.3	48950.5	0.028547093
2790	46960.9	45369.1	0.031423564
2791	47529.6	46225.1	0.028500593
2792	45502.8	43761.5	0.038299277
2793	46398.5	44731.8	0.035817441
2794	49339.8	48050.7	0.027599344
2795	45786.5	44248.9	0.034903439
2796	43618.5	42085.4	0.037096088
2797	46085.4	44723.8	0.03371828
2798	44248.1	42831.9	0.036292536
2799	46577.6	44971.5	0.034829824

2800	42202.1	40366.4	0.045794987
2801	45880.7	44071.8	0.036915653
2802	44336.3	43044.0	0.031394955
2803	45527.8	44080.6	0.030981369
2804	49348.5	47759.0	0.031757358
2805	47949.4	46656.6	0.026862428
2806	49133.8	47531.5	0.030363474
2807	43427.0	41837.7	0.03892287
2808	48724.6	47050.4	0.031769127
2809	45035.0	43572.9	0.032052867
2810	47452.7	45930.4	0.028527019
2811	47800.9	46187.4	0.030335329
2812	45483.2	43859.8	0.034440217
2813	44693.9	43036.3	0.032936054
2814	44932.4	43729.0	0.030540778
2815	49184.4	47581.4	0.030402586
2816	43524.4	41588.9	0.041277547
2817	42077.8	40784.9	0.029124744
2818	48210.2	46817.3	0.027825098
2819	47227.4	45753.0	0.029218678
2820	48077.7	46583.5	0.029854416
2821	46217.8	44739.7	0.033376547
2822	47986.5	46574.9	0.029583881
2823	46895.2	45186.3	0.032702067
2824	47100.6	45631.4	0.028433161
2825	45496.2	44155.5	0.029801419
2826	46148.5	44550.5	0.032426358
2827	46501.4	44793.6	0.034101045
2828	47885.7	46442.4	0.03028452
2829	47579.6	46013.3	0.030955201
2830	45247.4	43769.2	0.034619507
2831	48018.1	46728.7	0.030296177
2832	47967.1	46140.2	0.037258294
2833	47958.6	46668.9	0.028206989
2834	45427.4	43936.2	0.032286462
2835	43799.6	41967.2	0.037544732
2836	44383.0	42810.7	0.036187105
2837	45309.8	43198.1	0.040505258
2838	44013.6	42724.9	0.031976976
2839	48253.3	46838.3	0.029401127
2840	46353.4	44608.2	0.03562925
2841	46272.9	44513.9	0.037788772
2842	49700.0	48232.6	0.028133629
2843	43955.1	42204.0	0.037117787

2844	47481.2	45593.2	0.034384241
2845	49247.2	47641.1	0.029025144
2846	46988.6	45204.2	0.035090577
2847	46560.1	45085.1	0.028598068
2848	47282.2	45897.4	0.028578302
2849	46627.7	45198.6	0.029592381
2850	47827.1	46160.8	0.031148445
2851	44935.8	43320.5	0.033080652
2852	45596.1	44048.5	0.033295245
2853	46865.7	45061.3	0.036151724
2854	45095.3	43239.2	0.039856016
2855	44647.6	42632.0	0.042589082
2856	44222.6	42470.8	0.036484342
2857	43993.9	42167.9	0.035429458
2858	47872.6	46350.3	0.032785472
2859	44064.5	42425.4	0.036536662
2860	46632.5	45154.9	0.030197262
2861	46503.4	44529.1	0.036621635
2862	45658.4	43795.1	0.035867267
2863	45467.2	43749.1	0.036402018
2864	45362.2	43860.3	0.032251281
2865	43747.2	42299.0	0.036344258
2866	44875.3	43491.4	0.036651141
2867	45291.4	43602.7	0.036322927
2868	44681.3	43245.3	0.031736197
2869	46222.2	44600.1	0.033705256
2870	46074.5	44640.3	0.032347911
2871	46643.5	44890.9	0.03409297
2872	42744.2	41321.3	0.034612852
2873	48690.7	47363.2	0.028283641
2874	46475.9	44701.7	0.034648406
2875	46903.1	45477.6	0.031081209
2876	48529.1	47089.2	0.027770281
2877	46957.8	45381.8	0.029990796
2878	46973.1	45954.8	0.023555851
2879	47391.0	45818.4	0.031873226
2880	49800.8	48334.7	0.02711241
2881	47598.8	45938.6	0.033239488
2882	48373.8	46894.5	0.029338954
2883	46594.0	44962.8	0.034206906
2884	47158.5	45459.7	0.032970654
2885	45943.1	44199.0	0.035298249
2886	47017.1	45321.5	0.035423413
2887	44170.9	42528.9	0.034238764

2888	47368.1	46136.0	0.027289386
2889	45736.7	44068.7	0.035109709
2890	44796.2	43256.3	0.032862464
2891	47913.4	46074.7	0.034454236
2892	49391.8	47991.1	0.025562121
2893	45332.6	43841.8	0.031501337
2894	48223.6	46668.8	0.029912446
2895	46246.9	44971.5	0.02993077
2896	45324.9	43456.0	0.03977677
2897	45263.8	43978.8	0.030006453
2898	46537.5	44946.2	0.033533016
2899	47393.5	45768.5	0.03470577
2900	43845.6	42466.9	0.036713426
2901	44052.5	42465.1	0.034102418
2902	44785.1	42977.8	0.03456764
2903	47045.9	45914.1	0.026273277
2904	48450.9	46853.0	0.030715344
2905	43516.0	41876.8	0.036920635
2906	46009.1	44522.9	0.030404001
2907	44747.5	43010.4	0.039405275
2908	47850.4	46384.6	0.031210357
2909	46383.5	44981.8	0.026275113
2910	47418.5	45692.6	0.033710366
2911	45294.6	43603.9	0.035201809
2912	45564.9	44111.5	0.033328912
2913	47209.2	45761.3	0.030093375
2914	49277.3	47942.9	0.026833032
2915	48422.0	47072.5	0.027810895
2916	46844.1	45288.8	0.03226281
2917	47379.8	45554.5	0.035652664
2918	49471.9	47685.5	0.030859118
2919	44406.4	43085.0	0.028910027
2920	46837.9	45158.2	0.032781179
2921	45451.4	43906.1	0.034388785
2922	46384.3	44587.9	0.037758558
2923	45816.1	44224.2	0.035212371
2924	45738.9	44142.9	0.035585881
2925	48291.1	46278.7	0.037522624
2926	44648.5	43403.3	0.031303392
2927	45396.4	44039.1	0.030242422
2928	48974.9	47431.2	0.028060879
2929	45733.6	44097.7	0.033106565
2930	44683.8	43240.4	0.032292485
2931	46270.9	44859.4	0.028009977

2932	48504.5	46910.9	0.030937156
2933	46583.0	45247.8	0.031348599
2934	47612.8	46217.6	0.028590513
2935	52683.8	51673.6	0.019410587
2936	47962.8	46714.1	0.025611694
2937	46770.3	45258.4	0.03323637
2938	46935.6	45699.1	0.028178297
2939	48274.2	46835.3	0.030191751
2940	47808.8	46183.4	0.030493086
2941	48158.7	46574.1	0.032924328
2942	44835.8	42876.4	0.039009586
2943	47250.8	45558.7	0.035616551
2944	44162.5	42405.8	0.03682429
2945	47671.8	46210.8	0.030342332
2946	48167.9	46621.1	0.031201436
2947	46694.0	45129.8	0.029230901
2948	48591.3	47221.7	0.029325671
2949	46824.8	45262.2	0.031047928
2950	48242.1	46723.9	0.030881038
2951	46832.2	45302.9	0.033504408
2952	42845.5	41092.2	0.04061213
2953	45773.1	44341.2	0.032067684
2954	46220.3	44751.4	0.035064984
2955	43556.2	42099.2	0.03705792
2956	47723.1	46258.2	0.031968239
2957	46283.4	44850.5	0.029599885
2958	45441.8	43691.1	0.039255766
2959	46761.4	45178.7	0.033775826
2960	45606.6	43970.9	0.035357673
2961	49162.0	47548.2	0.028423878
2962	48060.0	46579.9	0.032638132
2963	47629.8	46046.8	0.031671477
2964	42339.7	40617.3	0.045462528
2965	47130.8	45703.4	0.030338786
2966	43690.5	42210.8	0.035703753
2967	44711.6	43113.9	0.037460887
2968	47355.6	45545.3	0.032651282
2969	45888.7	44447.8	0.033583994
2970	48247.5	46657.6	0.031399641
2971	46648.0	45175.0	0.028269011
2972	44284.2	42755.1	0.038715078
2973	47333.0	45701.8	0.034870258
2974	44625.1	42895.2	0.040904151
2975	47028.1	45760.8	0.030496944

2976	44101.2	42493.1	0.041412934
2977	42054.0	40459.9	0.040149912
2978	45626.4	43844.9	0.034383158
2979	46199.8	44477.5	0.034607069
2980	46820.7	44941.5	0.036183248
2981	47591.0	46189.2	0.029562857
2982	44626.0	43130.3	0.033392921
2983	51250.7	49599.4	0.028141138
2984	46645.2	45393.7	0.027796174
2985	47312.2	45741.5	0.029953443
2986	48847.0	47136.2	0.033791202
2987	46677.4	45199.7	0.028509139
2988	46558.7	45297.4	0.034353857
2989	49255.1	47973.6	0.02547246
2990	48181.6	46342.3	0.032111865
2991	44331.4	42905.9	0.0364136
2992	46607.1	44670.5	0.036559387
2993	46763.8	45146.4	0.034998255
2994	46465.2	45048.0	0.031279207
2995	48146.0	46614.8	0.028072053
2996	47126.6	45427.7	0.032496011
2997	42326.8	41050.9	0.031438641
2998	45349.3	43563.2	0.036603577
2999	44145.4	42560.9	0.037993555
3000	46184.7	44697.0	0.03168556
3001	44785.1	43282.9	0.032739191
3002	43510.8	41818.1	0.041791016
3003	47602.3	46116.7	0.02950532
3004	43716.1	41728.5	0.042362327
3005	48458.2	46703.9	0.034527021
3006	47784.2	45889.1	0.030286409
3007	46543.0	44784.8	0.034718676
3008	46289.7	44752.4	0.033233934
3009	47771.8	46239.6	0.033010741
3010	45292.8	43680.2	0.032633434
3011	47806.0	46023.6	0.034711143
3012	42022.1	40111.9	0.043766465
3013	49983.6	48464.7	0.025645063
3014	45829.6	44234.4	0.034964367
3015	46877.8	45214.3	0.033475508
3016	45372.8	43810.0	0.03287683
3017	44592.0	42973.2	0.037111677
3018	46545.6	45411.4	0.029121434
3019	45075.7	43454.9	0.035145137

3020	45546.1	43763.4	0.036055057
3021	44834.2	43106.1	0.039027306
3022	45904.3	44259.7	0.036001821
3023	45819.8	44425.6	0.030960358
3024	48849.0	47497.8	0.030051419
3025	48475.3	46803.1	0.03349848
3026	46898.6	45204.7	0.031884669
3027	46458.0	44599.5	0.035585444
3028	48883.0	47222.6	0.030561739
3029	44802.8	43331.1	0.033042073
3030	46936.0	45302.2	0.035125161
3031	46124.6	44347.9	0.03718977
3032	43158.3	41368.2	0.039070918
3033	47003.8	45496.3	0.029751516
3034	43443.4	41611.7	0.042792647
3035	46468.5	44944.4	0.031765721
3036	45802.5	44296.7	0.031608032
3037	47133.1	45437.2	0.03333889
3038	47642.4	46352.1	0.028272676
3039	45729.4	44250.7	0.032135159
3040	47463.4	45812.5	0.035126055
3041	49158.4	47701.8	0.027734011
3042	48651.3	46985.1	0.03046065
3043	47918.5	46580.4	0.028017822
3044	44508.8	43030.5	0.03725807
3045	46953.0	45190.7	0.037250574
3046	43819.2	41977.8	0.039336487
3047	43197.9	41453.5	0.037188833
3048	47206.8	45732.6	0.029457924
3049	50368.8	48883.6	0.026465178
3050	43980.8	42323.1	0.035581863
3051	45446.7	43839.4	0.035185327
3052	47217.9	45773.4	0.027899376
3053	48932.1	47520.5	0.026669785
3054	45653.9	43722.4	0.040976249
3055	40708.8	39019.0	0.04200045
3056	47340.6	45886.0	0.028655114
3057	46409.9	45140.3	0.02713355
3058	45499.8	43735.4	0.034041314
3059	46330.7	44505.8	0.035221665
3060	44789.4	43087.1	0.036899763
3061	47445.6	45641.7	0.034453094
3062	46181.0	44755.1	0.029150675
3063	46784.0	45361.5	0.034438017

3064	46166.7	44594.1	0.033948243
3065	46578.9	44913.8	0.032160071
3066	45468.6	43762.3	0.036678238
3067	47711.6	46293.8	0.029456622
3068	46239.1	44613.7	0.036178137
3069	46401.4	44780.9	0.033528408
3070	46422.6	44911.1	0.031274261
3071	48328.7	46867.5	0.027792389
3072	47361.1	45765.7	0.034721536
3073	47500.1	46019.5	0.029898781
3074	46521.0	44775.3	0.037586154
3075	45982.8	44502.0	0.030914924
3076	48524.9	47290.4	0.026103555
3077	46893.4	45415.3	0.032407952
3078	47581.6	46194.3	0.029996306
3079	43578.2	42220.8	0.03875765
3080	48784.4	47194.5	0.027525094
3081	45319.0	43809.5	0.035777856
3082	47233.7	45484.9	0.031730191
3083	47851.5	46310.0	0.031830003
3084	45174.1	43391.1	0.038307857
3085	44539.0	43074.8	0.034517364
3086	46234.0	44663.0	0.033704744
3087	46157.3	44568.0	0.030235297
3088	45210.4	43857.5	0.030049617
3089	47473.1	45815.0	0.032281674
3090	42570.7	40623.6	0.045205763
3091	45037.0	43399.4	0.03420459
3092	48185.3	46869.3	0.02573099
3093	47672.2	45989.2	0.031250397
3094	45658.7	43919.4	0.037965094
3095	48425.0	47031.4	0.026548063
3096	42709.6	41111.2	0.036616744
3097	45527.8	43953.6	0.034558722
3098	52252.4	50670.7	0.028492172
3099	43329.5	41736.5	0.037774325
3100	46715.5	45349.2	0.028972401
3101	44680.3	42651.9	0.042269407
3102	45949.1	44415.7	0.032706247
3103	41107.9	39351.8	0.050496685
3104	46979.9	45392.9	0.03185157
3105	46500.6	44968.8	0.033441122
3106	48997.3	47631.9	0.027551693
3107	48784.5	47057.7	0.031941509

3108	49616.7	48272.5	0.025953467
3109	45833.3	44417.3	0.032285836
3110	45121.8	43522.0	0.033462303
3111	45814.6	44022.4	0.034954021
3112	45786.4	44393.6	0.029857676
3113	45995.3	44346.1	0.034678472
3114	44720.8	43243.8	0.035655481
3115	45211.7	43581.8	0.034376572
3116	45225.1	43404.1	0.037463059
3117	46974.6	45328.6	0.033626799
3118	43479.2	42020.6	0.034704221
3119	45028.3	43574.4	0.030304823
3120	43951.6	42204.6	0.037170445
3121	43845.2	42252.2	0.033259915
3122	49179.8	47889.0	0.027382152
3123	45810.6	44254.8	0.032070622
3124	45118.7	43709.4	0.030574459
3125	43985.0	42220.0	0.036722577
3126	42304.1	40671.6	0.040917839
3127	47696.8	46083.0	0.030977469
3128	42599.8	40854.3	0.039252864
3129	45558.0	44114.2	0.031370123
3130	47702.4	46406.0	0.027043572
3131	46119.4	44511.2	0.034690217
3132	45058.4	43369.5	0.038466641
3133	46564.1	44917.0	0.032800046
3134	45735.5	44168.9	0.032358352
3135	46818.5	45328.0	0.030302254
3136	45199.8	43804.5	0.033715835
3137	44448.9	42880.4	0.035648193
3138	45564.7	44008.5	0.034064997
3139	50078.0	48567.0	0.030949025
3140	44372.9	42579.0	0.042133588
3141	46932.8	45492.0	0.031236107
3142	47852.4	46334.7	0.029351189
3143	45671.1	44335.6	0.031116745
3144	43427.2	41911.3	0.034936973
3145	50746.0	49410.5	0.025208795
3146	43417.7	41650.2	0.037438589
3147	47688.0	46341.1	0.030201302
3148	45645.8	43952.5	0.035409455
3149	43477.0	41609.6	0.038889924
3150	48545.0	47110.8	0.028442751
3151	47388.4	45587.7	0.036334973

3152	47157.3	45117.3	0.036978075
3153	50238.3	48583.0	0.030919943
3154	48596.0	47170.0	0.027934694
3155	49152.6	47580.3	0.033216185
3156	47896.4	46310.5	0.030361244
3157	42498.1	40683.2	0.042826233
3158	48221.9	46723.6	0.030828708
3159	46316.0	44585.5	0.035208774
3160	46315.6	44729.0	0.034166839
3161	44402.1	42815.8	0.033228801
3162	46442.5	44635.3	0.036858972
3163	47722.2	46268.4	0.029939667
3164	47792.8	46149.7	0.029279887
3165	48371.8	46707.6	0.032274112
3166	49701.8	48096.0	0.030701682
3167	44232.9	42458.2	0.038504485
3168	46531.5	45046.0	0.031069957
3169	46594.8	44617.9	0.037605415
3170	46644.7	44951.9	0.034094722
3171	46034.1	44661.7	0.028169404
3172	49110.2	47888.5	0.025147222
3173	45697.9	44136.8	0.036447269
3174	45800.8	44437.5	0.031552763
3175	46611.2	44757.0	0.036203985
3176	46502.5	45100.0	0.030550297
3177	48710.7	47047.2	0.032897571
3178	45143.4	43571.4	0.034326769
3179	45261.1	43832.3	0.035819341
3180	47043.5	45437.6	0.03552765
3181	43745.8	42207.7	0.033039055
3182	45084.3	43288.9	0.038662794
3183	49663.8	47931.5	0.028962597
3184	47918.9	46390.8	0.033713389
3185	46343.6	44714.3	0.032700656
3186	48807.6	47612.7	0.024611686
3187	48477.2	46677.7	0.030664342
3188	43934.5	42377.9	0.034968485
3189	44915.5	43335.0	0.034830234
3190	45066.9	43033.4	0.041851954
3191	42663.3	40828.8	0.044543213
3192	45734.8	44134.8	0.033370158
3193	48462.4	46562.0	0.034700361
3194	46971.3	45240.6	0.034567741
3195	44514.2	42580.4	0.036469314

3196	47459.6	45862.5	0.03035746
3197	46827.7	45233.3	0.03475545
3198	45713.0	43787.1	0.039731387
3199	44424.0	42669.9	0.040212037
3200	46388.9	44800.3	0.031823465
3201	46712.7	45380.2	0.028964327
3202	46620.9	45338.4	0.026139488
3203	49187.5	47691.1	0.029460811
3204	49332.3	48012.7	0.026292702
3205	45812.6	43973.1	0.039453172
3206	45476.8	43888.6	0.031643657
3207	46705.4	45288.0	0.03110129
3208	50802.1	49590.6	0.026069121
3209	44540.6	42576.2	0.042794217
3210	45740.0	44188.1	0.033164903
3211	48333.0	46619.6	0.032543361
3212	46939.1	44907.8	0.036921005
3213	48363.5	46763.0	0.030708031
3214	45603.7	43802.4	0.035677613
3215	44540.1	42343.2	0.044953107
3216	47093.0	45410.4	0.032949406
3217	44602.1	42901.6	0.039004562
3218	45863.1	44370.0	0.031812635
3219	46900.8	45358.7	0.030456504
3220	45276.0	43638.5	0.034824769
3221	44893.5	43335.1	0.036894209
3222	45614.2	44148.0	0.029871764
3223	46027.8	44230.0	0.037392979
3224	44885.4	42951.4	0.037464781
3225	44033.1	42335.1	0.039142771
3226	45851.6	44376.2	0.030672979
3227	47204.5	45850.0	0.029400161
3228	45879.1	44243.5	0.032532843
3229	43466.7	42111.0	0.029821475
3230	48887.4	47538.2	0.027735873
3231	43973.3	42359.3	0.03613393
3232	49043.9	47840.1	0.023668991
3233	43803.8	42364.0	0.034897357
3234	41939.0	40123.6	0.043665586
3235	44364.6	43083.5	0.03037104
3236	46704.6	45333.3	0.03032759
3237	47506.6	45966.1	0.029115822
3238	47251.2	45614.2	0.031009949
3239	43063.4	41140.6	0.041015182

3240	48282.5	46638.7	0.03054466
3241	44754.5	43149.0	0.035860231
3242	46016.9	44673.3	0.030036931
3243	45574.0	43899.9	0.033200238
3244	48261.9	47048.9	0.024494665
3245	46314.8	44784.9	0.030927577
3246	43566.3	42195.4	0.031670696
3247	45536.0	43913.3	0.034012023
3248	46610.4	45050.9	0.034848402
3249	46406.4	44829.8	0.033421005
3250	45764.5	43968.0	0.037633591
3251	47795.8	46251.4	0.028972104
3252	47469.5	46022.6	0.028960735
3253	45669.6	44183.6	0.032730262
3254	47675.1	45896.0	0.03343291
3255	45513.3	43822.8	0.034924578
3256	48615.5	47129.8	0.029039837
3257	48440.6	47026.3	0.028278638
3258	45242.1	43469.5	0.039074894
3259	46246.9	44654.9	0.032513599
3260	45509.1	44015.5	0.034217803
3261	46431.8	44712.1	0.035106257
3262	46259.1	44842.8	0.030482825
3263	45703.1	44151.0	0.03546804
3264	46547.0	45208.4	0.028163047
3265	44798.1	43177.9	0.033604164
3266	49047.2	47371.0	0.030351965
3267	47117.8	45746.8	0.03004971
3268	46590.9	45210.3	0.027186359
3269	44138.6	42846.8	0.032714679
3270	44892.8	43228.5	0.035771408
3271	47204.4	45728.6	0.028855404
3272	49385.5	47867.0	0.029921955
3273	44726.4	42649.7	0.04195892
3274	46034.6	43813.0	0.038806065
3275	43966.7	42248.8	0.0381008
3276	47314.7	46002.5	0.029678457
3277	47803.3	46496.9	0.032742824
3278	45923.6	44213.1	0.033351448
3279	46906.7	44964.0	0.038954373
3280	45635.0	43940.3	0.035355316
3281	43955.6	42223.1	0.04124271
3282	47844.7	46159.5	0.034354819
3283	48793.4	47423.2	0.027579008

3284	44041.8	42207.0	0.038049301
3285	49128.6	47598.8	0.030802891
3286	47580.7	45766.0	0.031243027
3287	46275.1	44902.9	0.030527805
3288	49997.3	48668.1	0.025543054
3289	45768.7	43925.9	0.037399803
3290	47037.5	45246.2	0.03485217
3291	45588.2	44054.6	0.036540099
3292	44475.8	42798.1	0.03835505
3293	43586.5	42099.9	0.034044157
3294	43677.9	41999.7	0.039134715
3295	44026.9	42424.2	0.03673022
3296	45892.0	44098.7	0.036552671
3297	43122.7	41392.8	0.041656891
3298	47857.3	46329.9	0.030203026
3299	45177.6	43460.0	0.03606494
3300	45229.9	43906.7	0.031367779
3301	44216.5	42732.9	0.037421596
3302	47219.4	45665.5	0.033284765
3303	47031.6	45720.5	0.031185166
3304	47530.5	45805.8	0.034219969
3305	45815.3	44596.9	0.02906471
3306	45970.9	44590.7	0.029653935
3307	44554.1	43145.1	0.033632102
3308	46744.9	45094.9	0.034089235
3309	47418.0	46136.7	0.024652359
3310	48015.3	46527.4	0.029479268
3311	46448.7	44715.0	0.03412995
3312	45741.7	44197.7	0.034167647
3313	46759.7	44932.4	0.034376362
3314	48456.1	46717.8	0.033692302
3315	45558.7	44012.7	0.032844548
3316	45533.3	43921.5	0.037055604
3317	44977.2	43442.9	0.03272104
3318	47875.4	46476.7	0.030175262
3319	48169.8	46815.6	0.026867203
3320	46986.3	45562.8	0.032131648
3321	46167.6	44172.1	0.037795912
3322	46742.0	45368.4	0.032983179
3323	45559.4	43580.2	0.038190512
3324	46474.0	44871.3	0.035267683
3325	45806.9	43953.3	0.03312209
3326	47292.1	45567.7	0.036123125
3327	44061.9	42532.8	0.036171788

3328	44900.3	43151.9	0.036661976
3329	47634.8	46075.3	0.032185898
3330	49157.3	47841.4	0.026243481
3331	46871.2	45098.7	0.035585071
3332	44163.9	42484.2	0.036971117
3333	43251.8	42002.5	0.03367564
3334	46797.5	45165.7	0.032052749
3335	43209.7	41330.8	0.041124304
3336	42775.5	40919.6	0.043607566
3337	48046.5	46599.5	0.030303345
3338	47894.1	46268.8	0.033270084
3339	44766.8	43165.8	0.035550373
3340	46477.9	44721.4	0.034665205
3341	45737.3	44234.1	0.035329788
3342	45210.4	43584.6	0.03581417
3343	45169.5	43740.0	0.03380816
3344	48183.7	47322.3	0.021190741
3345	43194.8	41633.8	0.038179979
3346	44733.1	42911.1	0.039038594
3347	46277.2	44681.0	0.036880648
3348	48236.5	46295.8	0.034549613
3349	45893.7	44341.1	0.031590317
3350	48955.6	47738.7	0.02546243
3351	45653.4	43807.6	0.036690168
3352	44132.8	42456.8	0.037555091
3353	45163.9	43527.5	0.033684257
3354	44671.6	43185.3	0.036952545
3355	44808.7	42845.2	0.039022365
3356	46800.2	45436.6	0.029447535
3357	44126.8	42713.4	0.030146457
3358	47244.7	45373.6	0.033376522
3359	48294.7	46734.7	0.031630066
3360	46287.4	44828.7	0.031324966
3361	48990.1	47644.7	0.02697565
3362	41535.0	40116.9	0.037526425
3363	47474.6	45860.1	0.032923646
3364	44270.8	42712.9	0.033343387
3365	45625.1	44148.3	0.030252323
3366	44902.8	43381.8	0.034830369
3367	48286.7	46744.7	0.029949866
3368	49194.9	47669.7	0.029076072
3369	46517.7	44928.7	0.030722315
3370	44757.8	42970.1	0.036024764
3371	46831.1	45624.8	0.026306026

3372	43527.5	41842.6	0.038970516
3373	44899.6	43100.3	0.035783243
3374	44771.7	43051.2	0.03736647
3375	47327.7	45793.3	0.02970945
3376	46004.1	44713.2	0.032683399
3377	45995.4	44025.1	0.040685543
3378	49004.5	47415.6	0.028928395
3379	47471.3	46296.7	0.024021791
3380	40091.5	38748.1	0.036628246
3381	47164.3	45527.6	0.032957185
3382	45653.6	44094.4	0.032623889
3383	46216.5	44466.5	0.034998904
3384	47355.9	45828.5	0.029173202
3385	49652.9	48354.6	0.024764391
3386	48568.5	47287.6	0.025286441
3387	45968.2	44547.1	0.031434663
3388	48849.8	47557.4	0.027679241
3389	44836.1	43191.9	0.030906936
3390	44983.5	43398.7	0.032661778
3391	47053.9	45744.4	0.029295001
3392	42846.8	41051.4	0.044759495
3393	48514.9	46968.9	0.029770852
3394	46285.3	44272.4	0.036926667
3395	47013.9	45000.7	0.038109403
3396	46858.0	45161.3	0.033154029
3397	43066.5	41732.3	0.034282136
3398	45031.2	43389.8	0.03766854
3399	44281.7	42631.7	0.038140275
3400	48207.2	46684.2	0.031825758
3401	45027.7	42951.8	0.041582756
3402	47908.7	46511.6	0.024451403
3403	46614.9	45197.3	0.034437552
3404	43712.9	42065.2	0.038557515
3405	46121.3	44737.7	0.028933727
3406	46125.2	44564.0	0.031483813
3407	46938.5	45419.3	0.031552027
3408	46846.6	45406.5	0.031043243
3409	45719.6	43999.1	0.036223453
3410	45379.3	43549.3	0.03621311
3411	45059.0	43103.7	0.039543896
3412	46527.7	44918.5	0.031674368
3413	47000.5	45243.6	0.035109782
3414	47017.5	45629.0	0.030048953
3415	46039.3	44690.5	0.027783711

3416	46563.0	45234.9	0.027974362
3417	46717.5	45445.9	0.029925323
3418	46698.8	44875.0	0.038241033
3419	45724.4	44387.5	0.029583512
3420	47005.7	45789.4	0.027032114
3421	45712.4	44111.4	0.036291271
3422	46024.4	44286.5	0.039604734
3423	50212.6	48807.4	0.025966084
3424	46149.0	44585.3	0.033850572
3425	47733.8	46167.2	0.029716688
3426	47299.6	45746.4	0.028740553
3427	45205.3	43529.6	0.035142376
3428	46194.0	45055.8	0.029524541
3429	46959.9	45370.8	0.032666357
3430	45092.9	43469.5	0.034483191
3431	46704.7	45651.1	0.026636706
3432	47162.9	45779.0	0.028268189
3433	45138.0	43443.0	0.037067376
3434	44979.1	43115.1	0.037113653
3435	45101.8	43476.2	0.036856637
3436	48118.6	46278.7	0.035262478
3437	46514.4	44740.8	0.032866057
3438	46050.9	44342.5	0.035305676
3439	42616.3	41259.3	0.034865622
3440	41725.7	39875.6	0.043582464
3441	49560.0	48502.6	0.024016395
3442	46025.6	44491.4	0.029919845
3443	44314.5	42390.5	0.038301552
3444	43051.0	41375.7	0.038127423
3445	47168.5	45752.6	0.029925447
3446	42684.2	41356.0	0.034631865
3447	46645.0	45114.5	0.033568665
3448	44827.4	43228.2	0.035843979
3449	45143.9	43584.7	0.035813429
3450	46857.1	45287.1	0.031860819
3451	47778.5	46430.9	0.028125201
3452	44850.6	43148.7	0.03631455
3453	44493.2	43128.0	0.028721679
3454	46491.9	44940.3	0.036071435
3455	48517.7	46988.0	0.028871099
3456	49888.8	48631.5	0.02353623
3457	45621.8	43892.3	0.035695432
3458	47604.0	45758.0	0.033640372
3459	46402.9	44633.2	0.037599752

3460	45229.2	43641.5	0.033928882
3461	46461.4	44693.5	0.037196601
3462	44590.6	43154.0	0.034987146
3463	46296.3	44693.4	0.03242893
3464	45732.5	44390.3	0.030412547
3465	46807.3	45157.4	0.03281749
3466	45107.0	43393.6	0.038608235
3467	46109.5	44562.7	0.034429714
3468	44459.2	42801.5	0.03799814
3469	44400.3	43344.3	0.028076768
3470	45782.7	43995.6	0.036389806
3471	47990.8	46330.9	0.032946834
3472	48985.3	47519.7	0.029007468
3473	44430.4	42700.2	0.041671756
3474	43645.5	41570.8	0.044826273
3475	44111.0	42347.6	0.040395866
3476	44719.6	42859.4	0.039097211
3477	42766.3	41174.5	0.039091698
3478	46452.5	44800.5	0.035405094
3479	49213.0	47754.6	0.027437908
3480	46328.7	44578.6	0.034929222
3481	49892.5	48497.2	0.02501941
3482	44657.4	43417.6	0.031764413
3483	45906.2	44482.4	0.032511236
3484	45950.2	44210.6	0.036661872
3485	44998.8	43129.9	0.039239311
3486	45343.8	43612.9	0.034303017
3487	43087.3	41336.3	0.040728476
3488	45686.7	44132.8	0.03749234
3489	44361.0	42872.0	0.032583179
3490	42960.6	41209.9	0.038425804
3491	47490.6	45806.5	0.033045244
3492	47198.0	45930.3	0.029921657
3493	45765.8	44112.5	0.037777238
3494	48510.3	46960.8	0.029637376
3495	45540.5	44070.9	0.034548516
3496	44988.9	43485.5	0.032531083
3497	46329.0	44851.4	0.032847487
3498	47319.9	45926.1	0.02818626
3499	45359.4	43614.8	0.037481143
3500	48278.4	46562.3	0.030283188
3501	44068.3	42705.4	0.029790009
3502	45535.2	43975.6	0.033645895
3503	45725.3	44274.4	0.03254379

3504	46869.6	45563.7	0.028571682
3505	47209.9	45826.0	0.028268703
3506	45377.5	43628.1	0.034981096
3507	41397.6	39678.5	0.045267178
3508	44936.1	43627.1	0.030153793
3509	46091.9	44606.5	0.034935239
3510	45191.2	43592.3	0.037239907
3511	46474.2	44855.0	0.030396823
3512	47426.1	46140.1	0.025299887
3513	42916.1	41438.9	0.036824437
3514	47002.3	45386.6	0.030825449
3515	45810.8	43998.1	0.035876965
3516	43756.0	42189.7	0.035224323
3517	47414.0	45756.0	0.031076104
3518	45997.1	44724.2	0.030655377
3519	45237.5	43949.4	0.030920783
3520	50043.0	48631.0	0.026934254
3521	48394.0	46898.1	0.031742184
3522	44279.1	42323.8	0.040804916
3523	47051.0	45593.8	0.028392486
3524	46725.9	45374.4	0.025669367
3525	46272.8	44485.9	0.037242646
3526	44491.9	42715.8	0.041491368
3527	47518.3	46004.3	0.032485015
3528	48036.9	46758.8	0.026842928
3529	45294.3	43742.4	0.0337445
3530	46726.3	45004.0	0.03651134
3531	44198.0	42426.9	0.0415961
3532	49891.1	48255.4	0.031669376
3533	43292.2	41706.1	0.036854554
3534	44007.3	42502.1	0.038339073
3535	44390.4	42988.8	0.032751818
3536	46344.1	45017.5	0.033245891
3537	46505.4	45324.2	0.030414824
3538	46319.9	44818.8	0.032342705
3539	45866.7	44545.6	0.033607461
3540	46400.5	44994.6	0.028833024
3541	44895.5	43306.6	0.033069211
3542	44752.7	43244.7	0.035109247
3543	44476.0	42931.7	0.033059808
3544	43677.1	41874.8	0.039006854
3545	47678.4	46222.9	0.03089499
3546	43889.6	42565.1	0.035580778
3547	48192.7	46951.6	0.026543745

3548	46425.7	45000.6	0.030820535
3549	45723.2	44194.7	0.034403492
3550	46527.7	44981.9	0.034599745
3551	45607.1	44107.2	0.031794775
3552	46118.2	44441.6	0.035162034
3553	45573.8	44139.3	0.035220949
3554	46646.8	44678.6	0.036986255
3555	47760.4	46076.7	0.035190837
3556	47715.1	46328.7	0.026755221
3557	47462.3	45842.9	0.030873268
3558	48037.3	46376.9	0.031163934
3559	46572.7	44930.9	0.033289468
3560	45769.9	44435.8	0.028999742
3561	45690.0	44239.1	0.031748525
3562	44271.7	42738.1	0.032811172
3563	46445.3	45055.4	0.03185342
3564	45091.4	43637.7	0.032640754
3565	44646.9	42924.5	0.037960079
3566	47946.5	46518.6	0.029011944
3567	46242.9	44667.8	0.032841041
3568	45784.6	43973.3	0.035585873
3569	49097.3	47784.8	0.028139558
3570	46360.1	44481.4	0.036539802
3571	47909.4	46273.8	0.031050456
3572	43741.3	42311.0	0.037340406
3573	48808.3	47380.5	0.028414123
3574	44550.8	42615.0	0.041412455
3575	47507.8	46324.9	0.025472381
3576	44792.4	43035.9	0.037594755
3577	45353.2	43803.9	0.031965721
3578	46381.3	44811.4	0.03341416
3579	46097.6	44543.8	0.033251631
3580	46960.9	45154.8	0.034498721
3581	44979.4	43184.0	0.038075707
3582	45476.6	43713.3	0.034896705
3583	46251.5	44426.9	0.03676048
3584	49158.4	47490.9	0.030332205
3585	46081.5	44444.7	0.035481851
3586	50343.0	49016.4	0.022319278
3587	44974.5	43090.0	0.037991002
3588	44799.5	43290.1	0.034152555
3589	45353.5	44071.0	0.030800706
3590	48806.1	47281.4	0.027024077
3591	47765.5	46208.1	0.030435769

3592	44822.1	43182.3	0.037303805
3593	44928.5	43385.1	0.035928758
3594	48454.0	47279.4	0.02601798
3595	44064.3	42491.4	0.037083154
3596	45486.4	43806.8	0.033744748
3597	44187.0	42623.8	0.034178613
3598	46959.6	45347.6	0.033478296
3599	47547.7	46008.0	0.029868922
3600	45674.8	43906.5	0.037032954
3601	43737.7	42287.4	0.037161848
3602	47712.0	46206.9	0.03199355
3603	45333.6	43791.7	0.0332006
3604	49765.1	48393.3	0.025156401
3605	49240.8	47860.8	0.02524039
3606	48037.6	46397.8	0.029305409
3607	49547.3	48214.1	0.024655958
3608	48211.2	46977.3	0.027171251
3609	47665.3	46044.3	0.028559609
3610	45934.9	44329.4	0.033407724
3611	45431.4	43948.5	0.036122536
3612	49271.6	47659.4	0.032447043
3613	42173.1	40293.8	0.038011136
3614	48837.2	47215.7	0.031298031
3615	41499.5	39748.6	0.044930214
3616	46523.9	45143.2	0.030342682
3617	50054.5	49044.9	0.021616693
3618	44564.8	42814.9	0.041522632
3619	43354.4	41816.5	0.034166679
3620	46133.6	44480.0	0.031803558
3621	45478.7	43945.5	0.03352288
3622	45124.4	43514.9	0.036977981
3623	47773.5	46388.8	0.029836209
3624	47186.4	45744.2	0.029172466
3625	47844.0	46280.8	0.029372442
3626	47749.8	46427.9	0.029296597
3627	44783.3	42835.2	0.039339598
3628	48534.2	47139.2	0.02643248
3629	46168.8	44548.0	0.034358619
3630	47787.6	45948.1	0.031604253
3631	44275.6	42678.0	0.03773588
3632	45753.3	44034.9	0.034106726
3633	46950.4	45462.4	0.030962168
3634	46199.3	44554.4	0.031641066
3635	45577.2	43615.0	0.039507899

3636	49426.0	47872.8	0.031359441
3637	48134.0	46668.9	0.027538048
3638	50200.1	48879.5	0.02586709
3639	47179.0	45699.2	0.033499141
3640	45220.3	43680.5	0.033405749
3641	46950.1	45465.6	0.030455913
3642	44095.7	42509.0	0.035070097
3643	44276.7	42691.9	0.03244267
3644	46717.5	45187.5	0.032754292
3645	46604.1	44752.9	0.033400928
3646	46614.2	45164.9	0.030848169
3647	48131.0	46609.2	0.030004612
3648	46804.6	45152.4	0.032017751
3649	45253.7	43888.1	0.030620904
3650	46019.5	44199.1	0.036537654
3651	48923.0	47591.3	0.027172893
3652	46793.9	45000.6	0.033564388
3653	43184.6	41359.9	0.038087989
3654	48009.2	46689.6	0.02708964
3655	46815.9	45119.4	0.034136713
3656	45724.6	44231.2	0.034064593
3657	44336.5	42529.2	0.040008435
3658	48497.9	46947.4	0.027330593
3659	45031.1	43371.8	0.036674453
3660	47973.3	46469.3	0.032600156
3661	44008.0	42386.2	0.037242333
3662	44488.4	42584.1	0.0381329
3663	47332.2	45693.0	0.032462415
3664	46753.4	45000.4	0.034534717
3665	45459.6	43629.4	0.038658446
3666	44735.1	42926.4	0.0354226
3667	40842.4	39311.2	0.038641816
3668	44941.4	43372.2	0.033191135
3669	46102.0	44490.3	0.030273367
3670	49880.8	48472.4	0.026809183
3671	43786.9	42068.3	0.039644571
3672	48461.3	46676.8	0.032877901
3673	46557.0	44978.4	0.033582586
3674	45029.0	43071.5	0.039517289
3675	47080.3	45626.3	0.030786699
3676	42428.4	40364.7	0.045641518
3677	45566.2	43709.4	0.040137354
3678	46640.0	45091.5	0.030746873
3679	42971.3	41004.7	0.045108105

3680	44043.4	42427.2	0.038591104
3681	45060.3	43601.6	0.031961563
3682	44337.7	42678.8	0.036314561
3683	46398.2	45123.9	0.029238521
3684	45413.2	43965.1	0.031994312
3685	44341.5	42518.6	0.041559867
3686	45656.6	43857.3	0.038608072
3687	48374.9	47057.3	0.028573583
3688	44364.0	42671.7	0.036218192
3689	46188.8	44600.3	0.03112036
3690	45583.2	43688.0	0.040173808
3691	46939.1	45237.0	0.03384976
3692	44657.6	43152.1	0.034877463
3693	46210.7	44834.5	0.031272498
3694	46522.1	44966.3	0.031489833
3695	47073.9	45802.5	0.029900466
3696	47747.6	46483.3	0.02640943
3697	46341.3	44925.0	0.032793152
3698	50140.0	48909.7	0.026499862
3699	45827.8	44138.1	0.034723791
3700	49055.8	47553.7	0.027939365
3701	50322.5	48997.6	0.025885445
3702	46570.4	45142.4	0.028983552
3703	46259.3	44560.1	0.035851235
3704	42772.8	41186.1	0.043102193
3705	48475.9	47059.7	0.025443669
3706	48008.5	46249.7	0.033505243
3707	45596.1	44401.4	0.030397364
3708	43551.3	41957.9	0.036716811
3709	49142.1	47778.1	0.028347891
3710	46313.8	44891.6	0.031019525
3711	43583.9	41965.0	0.034797035
3712	45427.4	43726.2	0.036965421
3713	45960.7	44124.6	0.036509442
3714	42155.8	40390.8	0.043354454
3715	43444.7	41632.0	0.045063765
3716	48079.2	46639.7	0.028046733
3717	47507.8	45515.1	0.03706701
3718	43932.8	42417.6	0.038631874
3719	43020.7	41443.9	0.039134033
3720	44011.1	42160.8	0.041386641
3721	47223.7	45658.2	0.030856155
3722	46855.6	45524.7	0.026445875
3723	45851.5	44112.0	0.035606852

3724	47116.2	45476.3	0.03257067
3725	44581.1	42833.2	0.037397131
3726	46978.3	45206.6	0.038964046
3727	44282.5	42677.5	0.035137428
3728	43453.3	41567.3	0.04284758
3729	47340.8	45717.8	0.032722008
3730	48181.0	46908.7	0.026696648
3731	47930.1	46269.5	0.032509084
3732	44210.0	42444.0	0.037942698
3733	47853.8	46571.0	0.029542037
3734	45512.0	43983.3	0.032995933
3735	47211.8	45614.5	0.032353884
3736	44696.9	43272.0	0.030530035
3737	43739.9	42234.2	0.030222985
3738	44691.6	43198.1	0.032294346
3739	47408.7	46076.3	0.032896746
3740	47253.1	45773.0	0.033284129
3741	47416.5	46008.7	0.029279244
3742	47073.0	45468.8	0.031459248
3743	48337.9	47386.7	0.023946844
3744	46936.7	44951.8	0.038509382
3745	48243.9	46796.7	0.030406706
3746	46120.7	44436.4	0.0337832
3747	49136.6	47689.1	0.030228422
3748	45458.2	43960.0	0.033183347
3749	48182.1	46568.3	0.029621826
3750	45979.8	44186.5	0.036293613
3751	42651.3	41042.6	0.037383345
3752	45641.6	44048.4	0.034083713
3753	43829.1	42432.2	0.033580633
3754	47339.2	45888.4	0.033745725
3755	48005.1	46288.3	0.032844887
3756	46013.5	44505.1	0.032734822
3757	45818.6	44263.4	0.033642735
3758	45410.9	44249.9	0.026155766
3759	44990.5	43309.7	0.036594192
3760	45512.2	44092.8	0.036933353
3761	47499.5	46071.3	0.02995322
3762	45762.0	44080.9	0.037651751
3763	44475.9	42219.5	0.046151733
3764	46034.9	44233.1	0.038329435
3765	43470.3	41639.7	0.043633642
3766	44362.7	42512.0	0.039356205
3767	45532.7	44056.2	0.030071748

3768	45837.1	44192.7	0.033129265
3769	46742.5	44815.9	0.03673892
3770	45844.2	44205.3	0.035490678
3771	42951.0	41019.0	0.04700032
3772	46560.8	45214.8	0.029870026
3773	48419.1	46851.4	0.030564945
3774	46383.5	45063.4	0.02724779
3775	45641.8	44102.3	0.033134461
3776	48469.0	47119.8	0.027316829
3777	46869.8	45298.6	0.032033798
3778	46071.7	44164.8	0.038679871
3779	43613.6	42037.5	0.036499583
3780	45887.1	44289.4	0.034190111
3781	50737.2	49102.9	0.028045165
3782	43410.1	41792.8	0.03794788
3783	51380.9	50107.6	0.02300796
3784	49186.9	47601.6	0.031860592
3785	46940.0	45634.2	0.027747812
3786	47910.1	46412.0	0.030309366
3787	46460.0	44763.7	0.033228211
3788	45000.9	43381.5	0.035328964
3789	45910.9	44258.0	0.037691252
3790	45267.2	43913.6	0.031062233
3791	46371.4	44816.1	0.030791377
3792	46928.6	45407.2	0.031010712
3793	46473.8	44929.9	0.031457885
3794	46168.9	44829.6	0.032099576
3795	47133.6	45811.2	0.028277221
3796	49190.8	47475.8	0.032814908
3797	46625.9	45154.6	0.032437166
3798	47429.1	45941.3	0.029280115
3799	44541.5	43099.0	0.033169587
3800	49506.7	47972.3	0.029213615
3801	47128.1	45219.1	0.033447907
3802	47098.5	45374.7	0.031875049
3803	44627.0	43413.3	0.029963271
3804	47242.7	45443.9	0.034323571
3805	46384.0	44811.4	0.032865912
3806	47481.4	46131.1	0.027175554
3807	43260.1	41663.0	0.039896022
3808	47972.5	46527.8	0.029045938
3809	42351.0	40549.6	0.040080094
3810	46712.9	45237.8	0.0300524
3811	47273.4	45544.3	0.034584378

3812	49105.3	47401.1	0.032662353
3813	45684.4	44198.0	0.033395201
3814	48137.4	46720.6	0.026323766
3815	45943.2	44451.6	0.032821997
3816	46536.3	45150.5	0.030089171
3817	48662.3	46872.7	0.033488444
3818	44203.3	42758.0	0.035851916
3819	48888.0	47343.6	0.031231185
3820	45504.8	44292.5	0.029133734
3821	44372.7	42751.1	0.035682674
3822	46193.0	44569.4	0.035165658
3823	44360.0	42794.4	0.036441714
3824	46975.8	45252.7	0.034310294
3825	44180.7	42584.3	0.034973137
3826	47712.1	46334.3	0.028837869
3827	50267.7	48749.5	0.026353249
3828	45692.4	44192.4	0.036887887
3829	45832.8	44605.3	0.030164384
3830	49490.7	48008.8	0.025909798
3831	43691.0	41812.4	0.041955941
3832	47699.0	46293.5	0.027628259
3833	46193.5	44719.7	0.033372568
3834	45714.8	44171.3	0.032235433
3835	46659.0	45104.7	0.029976517
3836	48724.6	47517.6	0.025775094
3837	47122.0	45579.1	0.030447172
3838	46279.9	44691.8	0.035517055
3839	44909.7	43163.7	0.036280459
3840	47502.6	45793.7	0.034563064
3841	43967.8	42610.5	0.032908883
3842	44793.1	43113.4	0.03614354
3843	44966.9	43590.6	0.031403743
3844	46849.6	45049.9	0.034159125
3845	46913.3	45383.8	0.032794461
3846	45156.4	43480.5	0.033501751
3847	47279.1	45948.4	0.030967505
3848	48984.4	47681.2	0.026508944
3849	46498.7	45067.0	0.030206021
3850	44361.0	42794.4	0.035358818
3851	46198.3	44657.2	0.031245208
3852	46819.7	45354.5	0.031542858
3853	47066.3	45602.0	0.028978886
3854	46964.3	45647.5	0.030287805
3855	47167.7	45787.0	0.031095236

3856	46085.5	44649.1	0.030165496
3857	48053.6	46277.4	0.033306576
3858	45346.5	43799.7	0.030103713
3859	46474.9	45230.3	0.030826808
3860	49078.9	47592.9	0.028664059
3861	46312.0	44617.4	0.035288294
3862	45024.0	43296.3	0.037839923
3863	41826.7	40163.1	0.038886975
3864	43253.8	41343.2	0.040635893
3865	50028.7	48750.7	0.023705469
3866	46697.4	45392.3	0.027374951
3867	46024.1	44967.7	0.024996928
3868	47664.2	46256.9	0.029820832
3869	48005.3	46669.4	0.02868294
3870	46059.2	44452.9	0.033234234
3871	48251.8	46752.7	0.027270183
3872	44104.2	42593.0	0.035991685
3873	47451.8	45847.8	0.02977248
3874	49339.8	47608.9	0.032484641
3875	46363.6	44920.3	0.032638179
3876	48876.4	47326.7	0.03071543
3877	46159.6	44651.3	0.029970929
3878	41526.6	39561.3	0.046469137
3879	46267.2	44951.2	0.029110979
3880	46638.0	45207.0	0.03446726
3881	45074.8	43681.2	0.030995826
3882	44567.8	42781.5	0.03726526
3883	38964.4	37252.9	0.048640949
3884	47323.3	45811.0	0.028641479
3885	47446.7	45835.5	0.031586297
3886	45057.1	43851.8	0.031268317
3887	45836.9	44542.9	0.03130091
3888	43786.1	42313.5	0.032691078
3889	42032.4	40518.8	0.034876113
3890	46053.9	44462.8	0.032654479
3891	46329.2	44823.7	0.031409801
3892	46287.3	44732.5	0.032158539
3893	46774.5	45134.2	0.037089577
3894	45999.9	44474.0	0.03289654
3895	46199.3	44838.7	0.030833477
3896	43614.1	42167.4	0.036720578
3897	48214.4	46708.4	0.027874716
3898	46769.5	45116.8	0.033839489
3899	47016.2	45405.1	0.032928423

3900	44785.4	43159.0	0.035496847
3901	45934.6	44762.7	0.025599313
3902	43783.8	42291.8	0.033009299
3903	46540.0	44793.5	0.036724406
3904	43673.6	42046.1	0.04101411
3905	44399.9	42207.4	0.044098414
3906	46862.7	45525.1	0.031195235
3907	46098.4	44561.9	0.032339565
3908	49155.8	47517.9	0.03161759
3909	44023.0	42359.0	0.034651321
3910	47940.1	46129.1	0.034268782
3911	47164.9	45752.2	0.034644469
3912	44306.1	42741.9	0.037215838
3913	45681.9	44220.7	0.032289065
3914	45674.8	44342.9	0.031931889
3915	46310.7	44464.3	0.03528067
3916	44358.5	42375.1	0.041356218
3917	47339.1	46096.5	0.02867058
3918	45932.3	44662.8	0.029710616
3919	45973.2	44401.0	0.031737235
3920	49609.0	48122.2	0.029300732
3921	45899.8	44332.7	0.031678736
3922	45696.1	43971.1	0.036324487
3923	44598.9	43073.6	0.031167506
3924	45816.9	44059.2	0.036342846
3925	49311.6	47566.3	0.030264532
3926	46930.9	45241.0	0.034687081
3927	46571.6	44934.9	0.031401194
3928	44110.5	42519.5	0.033320915
3929	46522.0	44869.7	0.035043624
3930	47171.9	45657.0	0.031982931
3931	48396.8	46992.7	0.0282966
3932	45148.4	43829.8	0.032070259
3933	46247.3	44810.2	0.036247966
3934	47590.3	46192.5	0.031960041
3935	48071.0	46570.6	0.031790719
3936	46240.6	44668.1	0.035423931
3937	45645.1	44033.9	0.033092285
3938	49487.7	47819.6	0.030419197
3939	46550.6	44807.2	0.035910457
3940	46622.3	45220.8	0.033310643
3941	45799.6	44119.4	0.031021869
3942	46866.8	45472.0	0.02992956
3943	46026.5	44559.1	0.032070044

3944	48360.7	46855.7	0.02857029
3945	46843.5	45493.8	0.02814869
3946	46934.3	45421.7	0.032797804
3947	44619.0	43241.8	0.036383465
3948	47148.1	45706.2	0.032105073
3949	44606.8	42759.4	0.037746758
3950	46859.5	45300.0	0.032864594
3951	47399.9	45783.2	0.034702809
3952	46260.0	44397.0	0.04244258
3953	47185.3	45547.1	0.029535026
3954	43307.4	41739.2	0.037620377
3955	45572.9	44256.6	0.031012376
3956	44955.9	42863.1	0.040881452
3957	48025.4	46725.5	0.028384381
3958	47551.5	46272.9	0.028234336
3959	45779.2	44288.1	0.032681957
3960	46588.5	45104.7	0.029556415
3961	49366.9	48053.2	0.024983333
3962	46295.9	44757.6	0.031452296
3963	47761.1	46529.0	0.024636303
3964	45668.7	43895.9	0.03886901
3965	42537.5	40815.9	0.039767005
3966	46854.8	44995.0	0.034934721
3967	45086.7	43501.3	0.034957487
3968	47076.0	45577.0	0.032375108
3969	49203.4	47718.0	0.029260268
3970	44218.9	42685.3	0.033241665
3971	46496.0	45552.6	0.026346574
3972	43862.4	42212.5	0.038231012
3973	45460.6	43418.9	0.038362887
3974	45033.5	43805.7	0.031869456
3975	43601.0	41946.4	0.039061485
3976	45573.8	44028.3	0.03544173
3977	45047.2	43635.0	0.029490042
3978	46741.4	45183.9	0.03451822
3979	46104.1	44503.5	0.034919987
3980	46550.7	45037.5	0.033913004
3981	45478.1	43837.6	0.034369644
3982	44895.9	43083.2	0.036384722
3983	46072.0	44304.2	0.034253767
3984	44467.0	43216.9	0.030100939
3985	45408.2	43861.0	0.034222399
3986	46062.0	44693.7	0.030174954
3987	45911.1	44485.9	0.030362665

3988	46568.7	45051.4	0.029916655
3989	45418.1	44366.9	0.025068106
3990	47091.9	45558.8	0.032507657
3991	48305.5	46641.0	0.033039099
3992	44539.9	42664.6	0.039713754
3993	48141.0	46866.8	0.027912869
3994	44531.3	42872.8	0.035655668
3995	48660.7	47539.1	0.024934895
3996	41663.3	39993.7	0.039452107
3997	46181.1	44739.2	0.031189764
3998	47184.0	45487.0	0.031240239
3999	47910.6	46329.4	0.031356336
4000	46594.4	45269.7	0.030221113
4001	45956.1	44341.1	0.032777527
4002	45540.1	44034.5	0.028866305
4003	45377.3	43850.6	0.035224304
4004	45425.6	43760.5	0.036217611
4005	48941.4	47213.6	0.030061075
4006	47837.9	46279.6	0.031368817
4007	46686.8	44992.8	0.032492181
4008	47567.3	45697.7	0.034895126
4009	48238.1	46931.9	0.029499382
4010	46903.9	45442.5	0.030936174
4011	47404.7	45849.3	0.031856869
4012	48133.6	46909.5	0.024771738
4013	44278.7	42749.1	0.034841146
4014	42964.8	41183.2	0.039729
4015	46237.9	44559.3	0.037956559
4016	45759.7	44457.1	0.032581735
4017	45936.7	44353.4	0.031707061
4018	43839.5	42456.3	0.031022284
4019	45281.4	43413.1	0.037428965
4020	46467.1	44919.8	0.033981106
4021	46815.4	44987.2	0.036897521
4022	43916.1	42208.3	0.037476476
4023	48995.3	47452.1	0.028311014
4024	42378.4	40471.5	0.043975386
4025	47385.4	45949.1	0.027913925
4026	46174.6	44424.9	0.034663714
4027	48402.7	47058.7	0.029729786
4028	47003.5	45684.7	0.024872116
4029	47279.1	45638.8	0.035254251
4030	45861.6	44128.8	0.034623771
4031	47291.2	45893.3	0.030005082

4032	45434.3	43901.9	0.032055074
4033	45035.0	43311.8	0.039021587
4034	47636.4	45953.6	0.033458795
4035	47455.9	46140.9	0.027005948
4036	46454.1	44605.2	0.036650389
4037	44112.0	42260.8	0.039920564
4038	46836.2	45592.9	0.026656575
4039	46666.5	45311.5	0.028395349
4040	45870.0	44357.8	0.032342888
4041	45156.9	44065.2	0.027568214
4042	46648.4	45004.9	0.031716388
4043	47702.1	46087.7	0.031244061
4044	45685.5	44511.3	0.027652679
4045	48679.1	47313.3	0.026707977
4046	44415.1	43062.5	0.030851065
4047	45155.5	43425.1	0.039693345
4048	46639.1	45220.4	0.031052678
4049	45938.7	44501.7	0.031171414
4050	43470.6	41763.7	0.035307971
4051	44002.5	42572.0	0.033075222
4052	45101.5	43834.8	0.030920451
4053	44234.0	42424.0	0.03897651
4054	44683.0	43269.3	0.034362521
4055	42542.8	40782.1	0.040302891
4056	47683.2	45976.1	0.033185216
4057	49327.2	48086.2	0.025414602
4058	46513.8	44538.7	0.039584489
4059	46830.2	45332.9	0.032225309
4060	43742.5	42063.6	0.037882912
4061	44191.5	42809.0	0.030523981
4062	46653.4	44858.6	0.035170995
4063	45935.7	44171.2	0.036895737
4064	46560.1	44781.6	0.033939486
4065	45417.2	43853.5	0.035714441
4066	44357.2	42730.7	0.036212047
4067	45379.4	43949.3	0.03392272
4068	47578.2	46189.9	0.030060757
4069	48422.9	47161.1	0.026302015
4070	44008.1	42190.9	0.039719963
4071	45005.7	43543.8	0.032447371
4072	47157.9	45986.2	0.026389026
4073	46445.6	44985.6	0.030574996
4074	43561.6	41889.9	0.040771784
4075	48582.1	47078.4	0.031892654

4076	43391.6	41922.5	0.034556811
4077	48321.0	46706.8	0.031836162
4078	48898.4	47530.8	0.026285661
4079	46851.1	45348.4	0.032395509
4080	42056.5	39956.1	0.044881177
4081	46141.8	44642.3	0.033282215
4082	43253.9	41492.9	0.037241371
4083	43141.1	41472.5	0.040862171
4084	46549.5	44854.5	0.034767468
4085	46396.4	44478.7	0.036724402
4086	47288.0	45495.0	0.03724629
4087	42911.3	41417.1	0.036615193
4088	45505.1	43784.4	0.034917109
4089	43523.4	41548.7	0.041238357
4090	46097.4	44412.1	0.03309631
4091	46644.2	44900.8	0.036479244
4092	45705.5	44309.1	0.03248024
4093	45815.7	44328.6	0.030619189
4094	44779.7	43146.6	0.03215137
4095	44433.6	42888.1	0.036676238
4096	46272.8	44628.8	0.032479304
4097	47196.5	45487.9	0.032931507
4098	48664.0	47484.2	0.027281361
4099	44038.9	42282.9	0.039360065
4100	46621.7	45302.1	0.028298308
4101	47253.3	45795.8	0.030083915
4102	46709.4	45171.3	0.032044378
4103	45756.0	44139.2	0.036314762
4104	47918.7	46646.8	0.027251236
4105	44240.6	42744.9	0.03376168
4106	42799.6	41529.9	0.03089126
4107	45555.7	44097.6	0.032669053
4108	49521.8	47991.7	0.028853823
4109	46103.1	44269.7	0.035245938
4110	46326.7	44558.2	0.036705139
4111	45646.0	44022.7	0.033890919
4112	49052.7	47565.1	0.029055648
4113	45580.2	43971.6	0.033012795
4114	46955.0	45332.5	0.033387323
4115	49449.3	48153.9	0.026521927
4116	46419.6	45108.6	0.029175238
4117	49540.1	47683.2	0.032879222
4118	45414.7	43604.8	0.039630644
4119	47663.0	45873.1	0.035668302

4120	44377.2	42379.5	0.041070112
4121	46932.3	45421.4	0.031806318
4122	46684.5	44966.6	0.034427049
4123	44178.4	42588.4	0.033569637
4124	47162.2	45827.9	0.028899797
4125	47813.2	46359.1	0.028236096
4126	47044.0	45705.1	0.028055328
4127	45521.3	43440.8	0.043181097
4128	44893.1	43348.8	0.033476764
4129	47600.9	46093.6	0.029519326
4130	46871.5	45576.3	0.029883414
4131	48173.0	46606.6	0.031451399
4132	49234.6	47599.9	0.03312669
4133	44227.2	42127.3	0.045271414
4134	46282.7	44676.6	0.033809233
4135	44413.0	42769.3	0.037325881
4136	49740.7	48198.4	0.029875486
4137	44142.4	42568.6	0.037566607
4138	48631.3	47188.9	0.029837092
4139	45844.5	44202.0	0.035073738
4140	45772.1	43920.7	0.036996641
4141	44957.9	43607.9	0.03012505
4142	48997.8	47858.0	0.025222159
4143	48305.8	46645.0	0.033038687
4144	47852.5	46194.0	0.032693588
4145	44577.2	42941.4	0.038098629
4146	46442.6	45022.4	0.033257853
4147	48687.1	46949.8	0.030966586
4148	47848.7	46308.7	0.031772194
4149	46985.7	45633.1	0.02796396
4150	45664.8	44299.8	0.031470624
4151	43556.8	42101.2	0.036298832
4152	45449.2	43790.3	0.037057567
4153	45015.7	43375.6	0.037392089
4154	47706.2	45794.4	0.036279546
4155	49378.1	47791.7	0.030188953
4156	46871.5	45330.4	0.030254739
4157	43437.0	42033.3	0.032917534
4158	48822.1	47283.0	0.030680405
4159	45603.2	43901.4	0.034362816
4160	47693.1	46297.6	0.029057594
4161	44124.2	42431.0	0.037548587
4162	46356.2	44869.9	0.028326296
4163	48474.3	46838.6	0.030731489

4164	46686.5	45275.5	0.029369679
4165	46158.2	44219.5	0.04160534
4166	47753.0	46353.0	0.029833017
4167	45759.9	43772.1	0.041235312
4168	47584.5	45968.3	0.033887136
4169	49621.4	48362.2	0.024172898
4170	44815.4	43382.2	0.033073981
4171	47862.5	46118.3	0.031034308
4172	44934.9	43450.5	0.033675225
4173	46916.8	45394.6	0.031503369
4174	44403.9	42638.3	0.036846927
4175	44771.6	43178.3	0.036891008
4176	44885.6	43418.8	0.035397501
4177	48398.1	46590.6	0.034828061
4178	47403.4	46224.1	0.025111545
4179	46327.0	44858.5	0.032136194
4180	47845.7	45801.0	0.03626547
4181	46864.5	45120.0	0.034523472
4182	44074.2	42416.0	0.035108272
4183	46624.1	45032.7	0.033975943
4184	46226.8	44943.9	0.027509055
4185	46205.5	44742.1	0.032184009
4186	46781.8	45244.8	0.031345891
4187	47190.8	45283.8	0.037723906
4188	46545.9	44863.9	0.034120232
4189	48297.5	47032.2	0.027261849
4190	47626.0	46002.4	0.03417752
4191	44572.4	43210.4	0.03316807
4192	47018.3	45451.9	0.032296675
4193	48012.6	46361.8	0.031688115
4194	47459.3	46100.2	0.028962972
4195	48938.2	47561.1	0.026795645
4196	43435.6	41605.6	0.040041253
4197	45689.5	44291.2	0.031207743
4198	45652.4	43972.6	0.034023531
4199	49778.8	48358.5	0.026508949
4200	45108.7	43764.7	0.030343015
4201	46022.3	44407.8	0.033811489
4202	45430.6	43942.8	0.031161751
4203	46278.3	44741.8	0.033069386
4204	49412.0	47675.9	0.033974875
4205	46555.8	44878.5	0.034900374
4206	46233.5	44964.6	0.028054167
4207	45893.6	44073.8	0.035772866

4208	47483.4	45887.6	0.031417268
4209	45115.3	43866.7	0.03425808
4210	45109.5	43744.2	0.031700915
4211	46979.2	45252.2	0.032949624
4212	45890.9	44460.5	0.034348982
4213	47208.5	45668.4	0.031037616
4214	43804.0	42556.1	0.031584894
4215	47514.4	45944.2	0.029996362
4216	46386.1	44924.9	0.031193848
4217	43611.6	41699.8	0.041644831
4218	45182.1	43244.8	0.040421387
4219	47430.4	45796.2	0.029946593
4220	48456.1	46938.3	0.026534016
4221	45205.6	43580.8	0.037277885
4222	44699.3	43025.0	0.039671909
4223	45937.6	44483.1	0.033441671
4224	48001.4	46391.7	0.029774935
4225	49392.0	48124.4	0.027878708
4226	49336.1	47982.3	0.026861992
4227	46566.1	45073.5	0.031163922
4228	45208.5	43634.3	0.033655716
4229	47514.1	46181.9	0.031435253
4230	43597.2	41980.5	0.036722397
4231	49589.6	48215.3	0.027457893
4232	48907.9	47601.5	0.02375986
4233	47997.6	46340.7	0.033133997
4234	47615.1	46185.8	0.02889328
4235	49123.3	48013.1	0.023181943
4236	46843.7	44844.7	0.038158674
4237	42914.5	40897.3	0.042720825
4238	46306.7	44634.4	0.032689186
4239	44509.0	43072.1	0.034245929
4240	46074.2	44724.9	0.030260694
4241	45297.9	43449.3	0.036433159
4242	48145.5	46626.0	0.029742971
4243	45470.9	43689.8	0.034739131
4244	44436.2	42952.4	0.035091325
4245	45143.0	43408.6	0.039407162
4246	43594.3	41936.5	0.037843923
4247	46172.6	44501.8	0.038385626
4248	43692.8	42140.5	0.036360181
4249	48080.2	46845.9	0.029096704
4250	43836.3	42225.6	0.03647791
4251	49410.8	48289.4	0.023210552

4252	45235.7	43530.3	0.03713619
4253	48195.0	46379.9	0.033816747
4254	45033.1	43792.7	0.031597435
4255	47765.8	46198.1	0.032936822
4256	44388.4	42888.7	0.034330103
4257	42439.6	40615.6	0.043306671
4258	48334.6	47204.6	0.023492745
4259	47605.6	45866.0	0.034353399
4260	44901.0	42865.7	0.039364534
4261	45474.2	43880.5	0.034806655
4262	43207.1	41669.7	0.038964834
4263	47535.3	45937.4	0.032364537
4264	46297.6	44650.8	0.033248736
4265	48188.7	46662.0	0.02882241
4266	45360.8	44016.1	0.031680462
4267	47904.6	46406.7	0.028041794
4268	47535.1	45952.6	0.030344543
4269	45781.7	44165.9	0.037002943
4270	47461.7	45775.0	0.03038341
4271	42415.2	40566.6	0.039458256
4272	44139.6	42609.0	0.036276472
4273	44519.5	42744.2	0.040721097
4274	42479.4	40655.6	0.043017178
4275	49711.3	48335.2	0.026218713
4276	48742.7	47200.5	0.027749532
4277	43509.1	42094.4	0.035081345
4278	46020.8	44164.0	0.037450633
4279	48759.8	47422.7	0.026192859
4280	45513.8	43798.9	0.037664353
4281	45232.2	43441.4	0.035460854
4282	47869.7	46299.4	0.030779988
4283	48637.2	47091.8	0.028377529
4284	43219.4	41529.1	0.038242866
4285	46597.7	45471.7	0.025625839
4286	46228.1	44621.9	0.033787276
4287	46257.7	44419.9	0.038704792
4288	45890.3	44452.0	0.031886092
4289	45884.4	44250.1	0.034630004
4290	51126.2	49783.1	0.024428265
4291	46025.7	44546.1	0.032072624
4292	41706.8	39698.1	0.048334806
4293	46899.7	45162.4	0.033205259
4294	48860.3	47470.6	0.02726625
4295	42925.5	41196.5	0.040380796

4296	45859.9	44420.4	0.030437966
4297	44507.0	42846.4	0.040416381
4298	47876.5	46319.2	0.029918383
4299	45927.0	44555.3	0.029893396
4300	46977.1	45605.6	0.027512874
4301	44523.1	42799.0	0.037564159
4302	43276.9	41735.2	0.036437151
4303	47258.7	45493.7	0.032439521
4304	46073.0	44335.0	0.032233997
4305	46022.1	44431.4	0.033748943
4306	45216.8	44153.2	0.02887541
4307	45722.3	44202.7	0.032583561
4308	46396.7	44794.9	0.033104298
4309	45940.0	44355.3	0.030186622
4310	46906.3	45381.1	0.031160359
4311	45497.2	43830.0	0.037052766
4312	42337.1	40939.0	0.038038398
4313	46505.1	44959.4	0.035116374
4314	46414.9	44833.3	0.033013403
4315	48109.1	46721.0	0.029287057
4316	45337.0	43647.3	0.034378438
4317	49758.2	48165.8	0.029376931
4318	44385.0	42734.1	0.040861798
4319	44869.6	43321.7	0.033675575
4320	48010.4	46535.0	0.028017483
4321	46653.4	45273.3	0.028488644
4322	48510.0	47129.9	0.027549397
4323	49498.0	47921.6	0.02950955
4324	46992.7	45375.7	0.034344671
4325	48119.8	46258.4	0.036356003
4326	48913.7	47570.8	0.027562128
4327	47427.7	45913.2	0.028806523
4328	48639.0	47101.9	0.03098075
4329	49277.4	47789.7	0.029384759
4330	44244.6	42642.7	0.039239584
4331	48515.4	46852.0	0.030263214
4332	45083.9	43702.4	0.032507527
4333	44217.8	42577.1	0.034800352
4334	44127.0	42485.1	0.038819121
4335	48110.5	46772.0	0.027626457
4336	45187.9	43699.8	0.033768292
4337	46246.4	44849.9	0.031560323
4338	46538.6	44755.3	0.034516457
4339	47107.8	45566.6	0.031553659

4340	44797.9	43132.2	0.03576339
4341	45115.7	43193.9	0.040485737
4342	47146.7	45496.9	0.035977521
4343	44165.5	42528.9	0.037306376
4344	49840.2	48310.7	0.027430256
4345	47047.9	45360.0	0.032954209
4346	45591.5	43656.0	0.037307391
4347	46982.6	45466.0	0.033103351
4348	44371.5	42682.2	0.03742925
4349	45463.9	43665.6	0.037925203
4350	44276.5	42630.4	0.034543938
4351	48082.8	46741.3	0.023621908
4352	42487.0	40763.3	0.040606188
4353	50381.5	49096.1	0.024906961
4354	48415.2	46865.8	0.029949289
4355	44743.3	43283.0	0.031515085
4356	47108.2	45479.5	0.033395216
4357	48207.6	46529.6	0.033281703
4358	46995.7	45427.7	0.032258579
4359	45585.0	44252.0	0.030223615
4360	46510.6	45338.2	0.02563162
4361	48503.4	46878.6	0.031297501
4362	44409.1	42701.1	0.041145809
4363	47414.8	45927.9	0.028726731
4364	49184.3	48074.9	0.022817062
4365	48558.8	46851.5	0.032705969
4366	49037.0	47659.7	0.026178132
4367	46243.0	44664.2	0.036180899
4368	44994.9	43620.5	0.031656091
4369	43972.1	42207.8	0.040643715
4370	44034.9	42400.5	0.036380086
4371	48341.7	46983.3	0.027785286
4372	45595.1	43902.2	0.035279992
4373	45742.4	44108.2	0.033865801
4374	49167.0	47854.7	0.02705788
4375	46368.7	44802.8	0.034679847
4376	48755.7	46932.6	0.032918377
4377	46981.4	45340.9	0.034693168
4378	48117.3	46479.7	0.030755485
4379	45630.4	44058.6	0.032407463
4380	46315.1	44997.6	0.032236943
4381	51753.5	50435.6	0.026313292
4382	50880.7	49658.1	0.022418201
4383	48259.9	46648.9	0.030846389

4384	46058.6	44235.4	0.03763297
4385	44042.6	42358.9	0.039692079
4386	47192.7	45528.7	0.032990002
4387	48595.1	47313.3	0.025171643
4388	45847.8	44559.9	0.028929647
4389	47421.2	45631.9	0.033476254
4390	45198.7	43301.2	0.039263373
4391	47044.2	45482.8	0.031397942
4392	43076.3	41069.6	0.04499718
4393	46273.0	44828.6	0.032531054
4394	46431.3	44973.1	0.032272661
4395	44791.1	43237.5	0.03586117
4396	45846.9	44627.5	0.029959919
4397	46429.4	44730.8	0.031672301
4398	45391.8	43737.3	0.03752923
4399	49406.8	47960.4	0.027944462
4400	45484.0	44055.1	0.032339543
4401	45959.1	44686.9	0.028136579
4402	45092.5	43438.8	0.036378591
4403	43966.9	42198.8	0.041815886
4404	44947.1	43283.1	0.034403904
4405	47843.1	46494.4	0.029658723
4406	48010.7	46358.8	0.033266435
4407	49772.4	48477.9	0.027394109
4408	46388.8	45071.2	0.028029159
4409	46726.6	44898.5	0.039977576
4410	46016.1	44598.7	0.03231561
4411	47982.7	46559.2	0.031404655
4412	46187.8	44853.4	0.029326662
4413	44605.5	43252.6	0.029765293
4414	45659.8	43995.0	0.034685565
4415	45036.0	43651.5	0.033358139
4416	45979.5	44502.2	0.029414806
4417	47567.2	46220.6	0.029174894
4418	44777.9	42951.5	0.039625866
4419	46028.5	44195.4	0.034502063
4420	47522.4	46306.8	0.026686427
4421	48277.2	46596.8	0.031952676
4422	46176.5	44729.4	0.030243048
4423	44249.8	42880.0	0.034490577
4424	48468.4	46887.9	0.031190649
4425	46679.3	44895.1	0.033775844
4426	44666.7	43061.1	0.03682356
4427	45789.6	44075.3	0.032199948

4428	46089.4	44306.7	0.035865638
4429	48121.5	46758.9	0.029579933
4430	49566.2	48350.8	0.024846651
4431	42517.6	40834.0	0.040586917
4432	47370.0	45910.9	0.028280452
4433	46458.2	44949.6	0.032068011
4434	45686.8	43495.5	0.04469186
4435	43917.0	42414.8	0.036806902
4436	47905.3	46458.0	0.029667989
4437	42361.4	40449.3	0.045293866
4438	45673.1	43967.0	0.034459709
4439	48654.9	47123.3	0.031739389
4440	47209.4	45893.7	0.027701548
4441	49519.0	48003.1	0.028280914
4442	47690.6	45955.2	0.032206884
4443	43650.8	41958.6	0.037238195
4444	44557.6	43061.9	0.033814253
4445	45276.7	43547.3	0.038423507
4446	50355.7	49042.7	0.024630158
4447	45482.8	44058.8	0.030230902
4448	43038.9	41267.7	0.040588975
4449	44318.4	42423.5	0.041115085
4450	45464.7	43560.7	0.037585285
4451	49016.7	47853.6	0.025766695
4452	43847.8	42280.5	0.034218737
4453	43506.5	41852.9	0.037304906
4454	44671.3	43373.7	0.033146943
4455	47356.2	45914.7	0.030554452
4456	45290.5	43649.4	0.030637477
4457	49709.7	48200.3	0.027721181
4458	42750.7	41086.2	0.042541519
4459	47141.6	45692.0	0.030290986
4460	46054.8	44021.2	0.041927506
4461	45521.6	43872.1	0.036060498
4462	45830.0	44034.7	0.037519446
4463	43521.4	42078.3	0.033995627
4464	47052.4	45509.5	0.030016015
4465	46000.7	44273.2	0.033153225
4466	44895.8	43234.1	0.034029986
4467	47572.8	46076.6	0.032036396
4468	46194.7	44683.6	0.03203469
4469	45452.5	43881.6	0.036601923
4470	49272.4	47999.2	0.024366151
4471	48400.5	46939.7	0.029784196

4472	45106.5	43387.0	0.038247198
4473	44987.9	43315.7	0.035607766
4474	46795.9	45330.4	0.03131621
4475	47115.5	45691.4	0.030468101
4476	43521.9	41882.6	0.040086807
4477	46809.0	45496.0	0.028774698
4478	45101.1	43552.8	0.032850114
4479	42935.0	41142.5	0.039026095
4480	42974.8	41157.1	0.040504833
4481	46006.4	44441.3	0.035096083
4482	47828.1	46549.6	0.02724327
4483	47255.0	45660.8	0.03253721
4484	47138.7	45862.1	0.028343926
4485	44044.7	42231.8	0.039159524
4486	45107.4	43442.6	0.035570269
4487	49125.0	47753.5	0.02816419
4488	45751.6	44356.9	0.028297654
4489	46460.7	45061.8	0.028802898
4490	44490.2	42862.9	0.035425559
4491	46836.9	45454.8	0.03152305
4492	46293.8	44670.0	0.036949797
4493	46062.5	44564.7	0.033654336
4494	45822.6	44280.8	0.034696992
4495	46701.2	45256.9	0.030006411
4496	43828.2	42253.5	0.03569234
4497	45738.1	44088.8	0.033427267
4498	46525.3	44878.9	0.035104669
4499	49052.8	47536.3	0.032655845
4500	47292.6	45952.6	0.028548696
4501	47051.3	45660.1	0.028412111
4502	45777.9	44227.4	0.034731085
4503	44295.2	42424.4	0.040657869
4504	46371.5	44677.1	0.032977225
4505	48516.2	46774.3	0.032224586
4506	43464.3	41800.4	0.038457198
4507	47249.7	45556.2	0.033777282
4508	48337.6	46713.9	0.031132157
4509	47238.8	45419.3	0.033932742
4510	46011.5	44438.6	0.033114597
4511	48790.4	47202.4	0.030151748
4512	47302.5	45848.9	0.032462884
4513	48671.9	47076.2	0.026889698
4514	47052.1	45436.9	0.034305265
4515	43875.6	42367.5	0.033762897

4516	47032.5	45381.0	0.029753011
4517	48719.1	46900.6	0.032970899
4518	48372.8	46875.2	0.029707773
4519	47697.7	46088.9	0.030369371
4520	48193.9	46476.7	0.030833907
4521	47111.2	45912.7	0.026567036
4522	48517.4	47105.5	0.029628514
4523	46730.7	45178.3	0.029818469
4524	45697.8	43930.0	0.035567561
4525	47556.1	45602.2	0.036346983
4526	48281.1	46830.2	0.028747968
4527	48825.6	47113.4	0.033165155
4528	44455.3	43092.7	0.029879187
4529	47701.4	46604.0	0.023366316
4530	46751.5	44972.2	0.032845638
4531	45465.5	43687.5	0.038177055
4532	44966.4	43381.4	0.032475176
4533	48047.7	46537.3	0.032165271
4534	45660.6	44130.2	0.03341672
4535	48459.1	47138.2	0.025933871
4536	42923.0	41130.7	0.040252699
4537	47421.1	45481.8	0.034606425
4538	46161.8	44355.5	0.039808205
4539	44430.2	42615.4	0.041603288
4540	48935.8	47348.9	0.029410854
4541	45645.7	43883.9	0.034248587
4542	46190.9	44507.4	0.034803815
4543	45495.0	43854.1	0.032470535
4544	47268.6	45684.3	0.034757809
4545	47344.1	45879.8	0.029743448
4546	47314.3	45715.9	0.03099222
4547	48267.2	46588.3	0.030753055
4548	46601.0	44797.8	0.037348191
4549	43157.7	41564.1	0.036450579
4550	45991.2	44270.2	0.03445513
4551	49942.2	48672.8	0.024341861
4552	47192.3	45662.6	0.031172135
4553	43465.9	41989.7	0.035432304
4554	44482.6	42696.8	0.042405992
4555	43856.0	42074.8	0.037793059
4556	48022.4	46745.1	0.027259512
4557	43270.6	41352.5	0.041791729
4558	41785.6	40168.4	0.045514499
4559	43633.9	41979.8	0.037031932

4560	47720.8	46207.9	0.033576841
4561	47915.0	46547.5	0.027882489
4562	44904.9	43448.0	0.030068481
4563	45530.1	43938.6	0.032484675
4564	45215.1	43724.1	0.031463984
4565	46291.5	44738.0	0.034051768
4566	48259.3	46886.1	0.028020425
4567	43354.7	42001.8	0.03172216
4568	49003.5	47357.4	0.031505642
4569	47247.7	45706.4	0.027847295
4570	45332.3	43807.0	0.033588953
4571	42141.6	40386.3	0.039846592
4572	47507.9	45918.9	0.030659595
4573	46406.2	45069.5	0.028276467
4574	46899.7	45069.2	0.037007097
4575	45587.0	44162.4	0.031127252
4576	46139.7	44313.6	0.038335961
4577	45368.6	44025.1	0.029536677
4578	44869.9	43413.9	0.032283664
4579	47694.1	46277.1	0.030765094
4580	43437.0	41220.9	0.043593727
4581	47773.9	46518.0	0.025528765
4582	45016.5	43587.5	0.033941
4583	45886.0	44318.8	0.035315337
4584	45875.5	44338.4	0.031201418
4585	46952.7	45328.1	0.034021146
4586	49467.8	48062.3	0.026259317
4587	46680.1	44845.6	0.034858534
4588	44422.3	42619.7	0.039967077
4589	47000.8	45300.0	0.035581289
4590	47176.2	45598.6	0.032009715
4591	46955.2	45503.2	0.03338286
4592	47315.2	45459.1	0.037338992
4593	46019.5	44759.4	0.027806378
4594	46253.1	44831.8	0.032147172
4595	44380.5	42649.2	0.039747164
4596	46513.5	45081.3	0.031058455
4597	43757.8	42205.2	0.035486768
4598	43968.7	42728.4	0.032687064
4599	47286.1	46018.4	0.027277643
4600	45231.1	43326.8	0.041533816
4601	48109.5	46560.9	0.028850275
4602	45672.0	43944.5	0.035349882
4603	44562.3	42917.3	0.037678663

4604	47173.8	45867.2	0.028811171
4605	45840.5	44827.4	0.025210408
4606	48485.1	47092.9	0.030107257
4607	47198.5	45659.1	0.031599222
4608	43372.0	41614.7	0.039487566
4609	43561.9	41919.7	0.035593044
4610	47917.0	46432.8	0.027719094
4611	46674.2	45210.0	0.031276883
4612	46126.4	44537.1	0.031165883
4613	49174.3	47768.6	0.029047852
4614	47170.0	45329.6	0.035628956
4615	46423.9	45180.1	0.027445124
4616	44736.7	43096.2	0.035353816
4617	45006.5	43149.9	0.039496153
4618	46409.8	44942.0	0.033044702
4619	46864.2	45186.0	0.033754282
4620	45711.2	43384.0	0.04275907
4621	48116.7	46424.8	0.030598015
4622	44954.6	43592.7	0.029851746
4623	46834.7	45256.5	0.030522311
4624	48084.2	46349.8	0.032141591
4625	46332.5	45158.8	0.028712706
4626	48510.0	47229.2	0.026887773
4627	44230.0	42209.0	0.045251571
4628	43111.0	41313.3	0.042199613
4629	47849.7	46172.0	0.03208664
4630	49610.9	48074.5	0.030950847
4631	48816.7	47411.5	0.023892204
4632	46429.1	45215.9	0.029222742
4633	44147.9	42311.0	0.039143761
4634	46049.5	44426.2	0.03406098
4635	45958.1	44246.6	0.030696347
4636	45602.8	44047.2	0.031997119
4637	46346.0	44859.0	0.035800884
4638	44659.0	43251.2	0.032823602
4639	48644.7	47288.2	0.026351067
4640	44798.9	43351.8	0.031797276
4641	43340.1	41629.2	0.040402727
4642	48735.4	47508.6	0.025839526
4643	44817.9	43228.3	0.033204617
4644	46746.9	45301.2	0.03440368
4645	44127.5	42456.3	0.037532563
4646	44819.2	42897.2	0.038203753
4647	49697.9	48450.8	0.024045427

4648	45871.4	44550.0	0.030195206
4649	45758.3	44024.3	0.03858645
4650	44380.4	42629.0	0.037641984
4651	44967.9	43255.5	0.034485036
4652	44305.4	42768.6	0.035894906
4653	46125.3	44544.2	0.032001277
4654	44710.0	42750.8	0.04262652
4655	46282.1	44850.1	0.030528289
4656	46180.4	44426.6	0.038220744
4657	41725.8	39868.0	0.044225591
4658	47354.1	45856.8	0.03200837
4659	45600.9	44002.1	0.035830581
4660	47360.3	45882.2	0.033133511
4661	44750.0	43422.5	0.03297712
4662	46847.4	45423.8	0.028932642
4663	50048.5	48682.1	0.028171918
4664	46551.3	45108.0	0.026107122
4665	48262.8	47031.4	0.025853616
4666	48241.7	46563.0	0.031737084
4667	47310.0	46011.8	0.02927613
4668	48220.2	46666.4	0.033144969
4669	48619.1	46913.3	0.031961898
4670	44574.7	43105.1	0.032513115
4671	46150.6	44986.0	0.024881392
4672	47365.5	45700.4	0.031386098
4673	45732.3	44361.5	0.031077125
4674	47557.2	45867.8	0.034069731
4675	44510.8	42946.1	0.034951505
4676	46293.4	44757.0	0.031016497
4677	46382.7	44847.0	0.031886778
4678	48053.9	46393.4	0.030162497
4679	47410.0	45976.5	0.030312203
4680	42722.5	41024.2	0.04377074
4681	44046.0	42280.0	0.040950772
4682	49965.2	48779.2	0.024658309
4683	47658.4	45669.3	0.036687423
4684	44904.0	43253.3	0.034066426
4685	44182.3	42625.1	0.033486011
4686	43831.6	42180.1	0.036323662
4687	47155.9	45382.8	0.032553128
4688	46916.6	45149.8	0.036060867
4689	46506.0	45019.8	0.034411759
4690	44034.2	42659.7	0.032190681
4691	43498.8	41707.9	0.042799519

4692	43814.9	42181.2	0.039296921
4693	46199.3	45030.8	0.026811041
4694	45439.3	44080.6	0.031794318
4695	43157.3	41266.0	0.04114692
4696	49313.0	47820.7	0.026459449
4697	43696.0	42255.7	0.034666396
4698	41264.2	39841.7	0.038062343
4699	48740.2	47142.6	0.031147833
4700	48443.4	46844.9	0.031345211
4701	45588.0	44174.4	0.031443921
4702	44746.5	43271.0	0.032891727
4703	47655.1	45931.1	0.03410173
4704	46323.1	44660.0	0.030919398
4705	42937.2	41415.2	0.037257315
4706	46738.5	45298.4	0.030290511
4707	46299.7	44849.4	0.029236574
4708	46432.8	45118.3	0.031848306
4709	46451.4	44704.8	0.037025687
4710	43698.0	41913.0	0.043775321
4711	48084.0	46058.1	0.039018487
4712	45679.5	43953.4	0.034961818
4713	49307.6	47647.0	0.029342787
4714	41916.0	40268.1	0.038178625
4715	44747.4	43167.2	0.036004502
4716	47830.1	46347.0	0.030484788
4717	48623.8	47271.0	0.027823006
4718	46215.8	44646.8	0.033272411
4719	47529.4	45773.3	0.036027491
4720	47961.1	46943.1	0.024467132
4721	44128.8	42723.3	0.03330547
4722	47086.4	45538.0	0.030327718
4723	45518.9	43938.2	0.033102415
4724	41542.3	39871.2	0.042427124
4725	44477.4	42676.6	0.041240652
4726	47184.9	45705.8	0.027358969
4727	45034.2	43489.7	0.031619227
4728	46680.4	44712.8	0.038075407
4729	46599.7	45390.1	0.027856606
4730	46004.1	44456.1	0.032829319
4731	45934.9	44522.0	0.032921925
4732	42110.3	40223.7	0.041455948
4733	46730.7	45299.7	0.032301965
4734	43631.2	42165.7	0.035102793
4735	45212.2	43690.5	0.032492884

4736	46702.4	44996.4	0.034553068
4737	49951.3	48726.4	0.024935734
4738	46334.4	44836.1	0.033394458
4739	42556.5	40854.4	0.040968213
4740	50127.8	48845.4	0.023547519
4741	44781.0	42947.6	0.040814479
4742	45724.9	44052.7	0.034742044
4743	44357.4	42898.5	0.033838369
4744	42609.5	41080.3	0.035740107
4745	44162.9	42099.2	0.044048914
4746	49390.8	47785.0	0.030073794
4747	46351.4	44878.3	0.031285808
4748	50468.1	49401.0	0.024572118
4749	44437.7	42899.2	0.034428274
4750	44937.0	43264.1	0.037254759
4751	45721.6	43877.4	0.039270058
4752	47593.3	46411.6	0.026636213
4753	43954.8	42325.7	0.035229863
4754	45397.0	43801.0	0.034540208
4755	43970.8	42417.1	0.040651346
4756	43442.9	41649.8	0.037818549
4757	44064.8	42357.1	0.036765412
4758	45802.0	44157.6	0.034821855
4759	45105.8	43699.8	0.032378771
4760	48781.1	47703.0	0.024166821
4761	47846.0	46245.7	0.032938294
4762	45363.1	43820.0	0.031909028
4763	46490.3	45290.3	0.026995259
4764	47823.6	46514.5	0.026760514
4765	49007.3	47206.8	0.032480916
4766	49463.7	47821.1	0.029844245
4767	47476.0	45718.3	0.03429876
4768	45147.5	43660.3	0.031029769
4769	46874.9	45380.4	0.030030106
4770	47381.1	45467.1	0.037684489
4771	48707.2	47540.1	0.024848709
4772	45921.5	43996.8	0.037520783
4773	44652.8	43096.6	0.038380172
4774	47074.3	45643.6	0.03197755
4775	47835.8	46406.1	0.028940723
4776	49303.7	47968.0	0.027419424
4777	47877.2	46471.0	0.029226347
4778	45426.8	43670.0	0.03453509
4779	46829.3	45098.8	0.031652144

4780	47413.4	45899.7	0.03264975
4781	45596.7	44290.4	0.02913616
4782	47757.4	46133.2	0.033463472
4783	44207.8	42639.8	0.035987297
4784	43658.7	42431.5	0.032329089
4785	50985.1	49596.7	0.025644693
4786	48080.0	46436.7	0.0324771
4787	47474.8	46051.2	0.028688462
4788	47539.7	46035.5	0.030012026
4789	45495.8	43776.3	0.035610404
4790	46434.0	44913.3	0.033558724
4791	46546.9	45014.4	0.030644647
4792	45202.4	43506.5	0.036289631
4793	45104.7	43518.5	0.033357584
4794	44873.4	43369.7	0.035368401
4795	46808.4	45430.8	0.031021443
4796	47939.1	46287.1	0.03395828
4797	43431.6	41514.3	0.044696492
4798	46688.8	45273.3	0.032217837
4799	49337.5	48049.0	0.025386982
4800	46692.5	45109.8	0.031385945
4801	47799.1	46332.3	0.030356251
4802	44770.5	43167.4	0.035975803
4803	47269.0	45505.6	0.033252519
4804	45066.4	43763.2	0.029325388
4805	44952.0	43430.1	0.033332984
4806	41959.2	40645.9	0.03412978
4807	46223.6	44600.8	0.033549197
4808	44379.0	42385.7	0.043932395
4809	46463.9	44894.4	0.032831707
4810	48761.1	47405.6	0.029612231
4811	43102.9	41381.9	0.038746596
4812	49006.3	47771.6	0.024911457
4813	44462.6	42827.9	0.036173302
4814	44798.3	43075.4	0.035346533
4815	46969.3	45560.8	0.029038776
4816	44674.0	43124.1	0.035294077
4817	46858.1	45419.3	0.03101856
4818	43454.4	41806.9	0.038466688
4819	48454.6	46883.9	0.028956243
4820	43167.9	41455.5	0.036310315
4821	48869.4	47237.1	0.028779342
4822	48122.8	46610.5	0.031242025
4823	45067.8	43569.5	0.03340821

4824	45800.6	43996.6	0.034452021
4825	48342.6	47109.0	0.025598821
4826	49388.8	47768.2	0.030833066
4827	44840.1	43481.6	0.03399316
4828	45672.6	44235.4	0.03120566
4829	45925.4	44338.2	0.034699734
4830	43466.0	41777.5	0.037977551
4831	46288.0	44919.9	0.030435328
4832	45248.4	43486.7	0.035779051
4833	44494.0	42660.1	0.038796053
4834	46135.4	44626.2	0.034811073
4835	47831.4	46270.1	0.032795668
4836	48536.3	47488.8	0.023128156
4837	48737.3	47409.0	0.026384154
4838	47131.2	46124.4	0.02305719
4839	43695.2	42353.9	0.029272335
4840	45295.8	43623.8	0.031658009
4841	45662.8	44035.9	0.035703392
4842	42191.8	40305.1	0.042954369
4843	44258.9	42504.7	0.036363181
4844	48266.1	46782.3	0.032636263
4845	47556.4	45530.7	0.038216142
4846	46313.4	44634.7	0.031039113
4847	44228.4	42241.6	0.042929979
4848	44863.4	43663.8	0.028987248
4849	48536.3	47066.8	0.032800297
4850	46227.8	44710.3	0.034245735
4851	45909.8	43914.1	0.038298744
4852	46359.8	44984.7	0.029594725
4853	44249.9	42504.6	0.03884225
4854	45948.2	44347.9	0.032503064
4855	45568.6	44027.4	0.03552654
4856	50025.3	48550.3	0.029830372
4857	43795.1	41995.4	0.035108002
4858	47565.1	45876.1	0.031921509
4859	47887.0	46339.2	0.030646726
4860	46516.8	45081.2	0.031374205
4861	46604.9	44816.6	0.031817035
4862	45281.3	43783.8	0.034797421
4863	45931.8	44197.4	0.035104218
4864	49616.0	48537.8	0.022350125
4865	46985.5	45346.8	0.034014904
4866	46392.8	45151.7	0.028707877
4867	44579.1	43082.8	0.035186149

4868	46240.7	45108.2	0.027510853
4869	45823.4	44069.6	0.035242164
4870	46939.5	45727.4	0.028195993
4871	47741.3	46413.1	0.028814417
4872	46014.2	44539.5	0.03185656
4873	45730.7	44578.1	0.027641165
4874	43729.1	42140.0	0.037680304
4875	48152.0	47049.2	0.026534959
4876	47822.8	46256.0	0.032453251
4877	44149.7	42469.9	0.035702873
4878	47873.7	46551.3	0.029857625
4879	45750.3	44060.3	0.0342049
4880	48058.0	46610.7	0.030753779
4881	46987.3	45307.2	0.031803068
4882	46124.6	44582.2	0.031180705
4883	45460.1	43673.9	0.039852242
4884	46084.9	44321.4	0.036779439
4885	47846.9	46340.5	0.030603308
4886	48040.0	46688.8	0.028095968
4887	45504.3	43994.1	0.034392823
4888	49016.7	47514.3	0.027841018
4889	44542.8	42555.0	0.040778023
4890	45857.3	44378.6	0.035738384
4891	45079.0	43365.8	0.037873581
4892	48132.1	46586.3	0.032458373
4893	48894.4	47310.1	0.03113458
4894	43981.0	42035.3	0.043768369
4895	46248.9	44855.5	0.031361999
4896	43831.5	42051.6	0.042844226
4897	47150.2	45630.7	0.03088137
4898	47721.5	46276.7	0.029255419
4899	46790.9	45003.6	0.032987093
4900	48011.7	46669.8	0.029677244
4901	46006.3	44521.6	0.028500991
4902	48827.1	47591.7	0.0268849
4903	46193.3	44637.7	0.033444811
4904	46177.0	44592.8	0.032113616
4905	45107.5	43729.0	0.033963642
4906	44561.0	42777.9	0.039311297
4907	46085.6	44384.9	0.034500731
4908	47498.2	45922.3	0.033465696
4909	46044.1	44537.9	0.030656877
4910	43041.4	41178.8	0.038782164
4911	48329.2	46716.1	0.030741837

4912	46260.0	44679.3	0.032413717
4913	47748.1	46081.8	0.032796834
4914	46512.0	44861.1	0.032890049
4915	47471.7	45763.5	0.032041456
4916	46973.6	45589.7	0.028317991
4917	46366.7	44281.1	0.03919546
4918	47513.9	45693.2	0.035166709
4919	45885.3	44049.7	0.036995156
4920	45524.6	43952.8	0.036326409
4921	44894.8	43037.9	0.037895982
4922	44957.0	43242.8	0.034494834
4923	46849.2	45201.7	0.033257536
4924	47049.5	45152.2	0.035773276
4925	47644.3	46201.3	0.029216621
4926	45204.4	43382.8	0.038184528
4927	43939.0	42469.7	0.034759957
4928	47411.4	45669.6	0.036734473
4929	45944.4	44178.0	0.036057725
4930	45792.8	44349.9	0.028712041
4931	46128.6	44321.7	0.039667323
4932	45358.0	43629.6	0.03444894
4933	43520.3	41814.2	0.040812008
4934	46693.5	44903.6	0.032616572
4935	45822.3	44303.2	0.032026486
4936	46312.0	44761.1	0.033604759
4937	46971.5	45168.1	0.034413829
4938	45683.4	44020.5	0.033853983
4939	46715.9	44976.4	0.036740267
4940	47551.0	46077.4	0.029293515
4941	45210.0	43721.9	0.038413984
4942	48042.9	46293.3	0.031734575
4943	46662.8	45057.1	0.032768184
4944	44727.1	42997.3	0.038510766
4945	41661.4	40187.1	0.033883348
4946	45794.8	44544.8	0.027893558
4947	47128.7	45468.3	0.035374041
4948	48813.9	47217.9	0.029646858
4949	48210.8	46740.1	0.02813595
4950	45873.2	44548.9	0.029400948
4951	44599.0	43354.3	0.029125957
4952	45267.0	43737.2	0.034264915
4953	47567.6	46378.1	0.026271693
4954	47592.3	45865.3	0.034231615
4955	44467.1	42712.0	0.038108187

4956	46975.3	45357.9	0.030388383
4957	45717.7	44021.4	0.034377787
4958	43064.4	41386.0	0.034549265
4959	44673.9	43195.9	0.036749662
4960	44846.7	43043.3	0.0380555
4961	42402.0	41176.3	0.03418691
4962	47204.1	45742.0	0.028868945
4963	45328.3	43319.2	0.042543393
4964	45800.6	43978.9	0.03501658
4965	43901.0	42299.4	0.031688486
4966	47025.3	45715.0	0.030561346
4967	46680.5	44926.0	0.034456514
4968	45690.9	44091.1	0.035678596
4969	44302.9	42599.4	0.039830972
4970	47269.3	45983.9	0.029924472
4971	49299.3	47938.9	0.027236222
4972	46430.1	44670.6	0.038269487
4973	45194.7	43630.4	0.031774004
4974	42706.7	40746.1	0.047639307
4975	45510.9	43907.0	0.038286154
4976	47119.5	45406.4	0.035032067
4977	44006.6	42326.9	0.037863983
4978	43804.2	42344.4	0.039315725
4979	48286.0	46901.0	0.027348595
4980	46601.6	45136.2	0.030715864
4981	42457.8	40631.0	0.04479367
4982	47679.3	46253.8	0.02931882
4983	48783.6	47198.7	0.027910598
4984	44595.9	43318.2	0.030236304
4985	49518.4	48316.4	0.023714307
4986	44528.9	42815.2	0.038098164
4987	47872.6	46351.8	0.029490304
4988	44351.8	42982.5	0.033126551
4989	49519.8	48209.2	0.024407598
4990	47870.1	46342.1	0.030837728
4991	46710.4	45260.8	0.030185757
4992	46624.1	45166.8	0.029622135
4993	45192.6	43745.7	0.034968081
4994	47279.3	45831.1	0.029739621
4995	44357.0	42872.7	0.034502576
4996	48217.4	46403.2	0.031845489
4997	44693.6	42756.2	0.039414764
4998	49427.5	47941.3	0.031820284
4999	45246.3	43661.8	0.036577614

5000	43995.3	42541.2	0.03249753
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