

```
1 C:\Users\dawitlam\AppData\Local\Programs\Python\Python310\python.exe C:\Users\dawitlam\Desktop\pythonProject\main.py
2 The best position: [ 9.76270079 43.03787327 20.
55267521 8.9766366 -15.26904013
3 29.17882261 -12.48255775 78.35460016 92.7325521
-23.31169623]
4 The best value: 224181343721.3542
5 Adjusted Numbers: [ 0.58345008 0.55778984 0.
63608912 0.85119328 -0.85792788 -0.8257414
6 -0.95956321 0.66523969 0.5563135 0.7400243 ]
7 The next position: [ 21.43170231 54.19367006 33.
27445766 26.00050213 -32.4275978
8 12.6639946 -31.67382185 91.65939398 103.85882214
-8.5112103 ]
9 The next value: 403073686512.73596
10 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
57704128 0.56105835 -0.76345115 0.77984204
11 -0.71329343 0.88933783 0.54369664 -0.67067612]
12 The next position: [ 28.90303119 55.00146358 9.
01450409 20.19522278 -30.53455122
13 44.77207619 -26.7451451 96.13726588 103.60398397
-36.72213353]
14 The next value: 351055493328.25165
15 Adjusted Numbers: [-0.97088878 0.54846738 -0.
58769934 0.6368679 -0.9624204 0.73527099
16 0.72419145 0.73386799 0.88749616 0.8636406 ]
17 The next position: [ -9.64614358 54.00217553 8.
80409472 21.70813604 -34.50859487
18 43.87747878 1.99460937 93.02520922 110.47431122
-6.04682885]
19 The next value: 329926005714.2641
20 Adjusted Numbers: [-0.7809842 -0.62593609 0.
89526239 -0.87954906 0.83353343 0.84127574
21 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
22 The next position: [ -5.84620809 30.52778736 38.
44557127 -8.60220955 1.39012837
23 45.99273046 -24.0592637 63.52189134 75.36167756
-38.75260627]
24 The next value: 73563924309.7688
25 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
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25 97674768 -0.79591038 -0.58224649 -0.67738096
26 0.80621665 -0.99341679 -0.56737845 -0.51114882]
27 The next position: [ 6.94988355 18.08330341 57.
96255884 -24.50577742 -10.24409175
28 32.45757069 -7.94975995 43.67182801 64.02454463
-48.96618069]
29 The next value: 35121145908.003426
30 Adjusted Numbers: [-0.68206083 -0.77924972 0.
81265918 -0.7236341 -0.60683528 -0.76254966
31 0.64198646 -0.80579745 0.67588981 -0.80780318]
32 The next position: [ -6.67565292 2.51622356 74.
19705985 -38.96182344 -22.36684649
33 17.22410809 4.87521034 27.57440386 77.52680262
-65.10367345]
34 The next value: 571071676.2533367
35 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
95352218 0.70969104 0.97852716 -0.92162442
36 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
37 The next position: [ 12.35644024 -8.72220685 93.
24120129 -24.78757886 -2.82329514
38 -1.18295801 -13.78673692 12.4032194 59.39744918
-80.33353056]
39 The next value: 34271812.56315659
40 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
87170501 0.88494424 0.63320291 -0.96922102
41 0.54649611 -0.81211898 0.65189299 0.8585924 ]
42 The next position: [ -4.89642989 -22.13008052 75.
83515069 -7.11716964 9.82038796
43 -20.53619098 -2.87439982 -3.81302797 72.41433252
-63.18931026]
44 The next value: 62163950.4657605
45 Adjusted Numbers: [-0.8628621 0.83482076 -0.
73640428 0.93265441 -0.92118781 -0.63361728
46 0.67302587 -0.95978491 0.65788006 -0.99060905]
47 The next position: [ -4.86907389 7.94351166 78
.54019366 -6.16878476 -21.21317898
48 -13.83200517 -0.35096695 -6.75718708 72.
53085984 -100.10928643]
49 The next value: 299880810.4946977
50 Adjusted Numbers: [ 0.85563307 -0.95998405 0.
97038804 0.92437709 -0.50249371 0.65231467
```

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51  0.68408386  0.64450381 -0.55383673  0.90549802]
52 The next position: [ 29.43371107 -27.88218113 112.
60882505 -6.33827108 -12.85238528
53  11.83635438 -0.1333547   25.26663771  48.34362224
-62.26102325]
54 The next value: 1222708109.5082593
55 The best position: [-10.57492428  69.28173449  39.
89585506 -40.51260983  62.75956394
56 -20.69885183  76.22063942  16.25457453  76.34707237
38.50631802]
57 The best value: 1792948067772.524
58 Adjusted Numbers: [ 0.95050856  0.50264876  0.
91216727  0.7879804 -0.6522899  0.71278643
59 -0.9616136 -0.89685037  0.82034707 -0.91984479]
60 The next position: [ 8.39156875  79.31161184  58.
09728416 -24.78921147  49.74374018
61 -6.47587753  57.03255583 -1.64122036  92.71631694
20.1516914 ]
62 The next value: 1246122195603.4512
63 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
72905187 -0.90343535  0.63992982  0.68174552
64 0.6486505  0.80640164  0.80420654 -0.63716313]
65 The next position: [ 23.07498555  66.49483113  43.
55309436 -42.81225713  62.50999337
66 7.12457624  69.97278178  14.4460554  108.75980165
7.44063222]
67 The next value: 1619655301390.606
68 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
62827015  0.78384671  0.61238798  0.90777717
69 -0.79954623  0.83896523  0.9284826  0.99769401]
70 The next position: [ 24.20970918  64.05625445  45.
56651785 -9.15549091  61.95773866
71 11.62961986  41.08571048  15.09183185  111.23478146
40.05056856]
72 The next value: 1747350620341.9106
73 Adjusted Numbers: [-0.70110339  0.73625211 -0.
67501413  0.73111913 -0.75236003  0.69601646
74 0.61463792  0.63820148 -0.68563341 -0.86166601]
75 The next position: [ -5.58863089  93.99268697  44.
63731173 -10.21048953  34.74146859
76 7.40288725  69.28860951  11.08469736  79.04459317
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76 2.96982779]
77 The next value: 1319707104459.5503
78 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
9441112 0.73276465 0.95104301 0.71160668
79 -0.97657183 -0.78004387 0.95998112 -0.65674065]
80 The next position: [ 26.23117692 67.49144582 76.
91879819 -10.18103799 68.70344469
81 7.71049715 37.56391648 -17.19193799 111.85420899
7.05910941]
82 The next value: 820745868058.2651
83 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
60000695 -0.96295641 0.58739541 -0.55215062
84 -0.80929664 0.85616259 0.9088288 -0.93632214]
85 The next position: [ 37.03529828 49.72636779 64.
95999308 -29.37382909 80.41088773
86 -3.29447821 21.43373536 -0.12766645 118.11396775
-11.60283109]
87 The next value: 631710258824.4255
88 Adjusted Numbers: [-0.67061169 0.7429568 0.
65445718 -0.52421436 0.868428 0.72793191
89 0.57126561 0.67981995 0.96024406 -0.87611001]
90 The next position: [ 23.67233651 64.53091646 78.
00105157 -39.81960054 97.71564149
91 11.21067656 32.81707479 13.41878407 119.134329
-29.06066069]
92 The next value: 1042846221022.0542
93 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
62761399 0.88874478 0.97910159 -0.51908238
94 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
95 The next position: [ 23.01905788 38.16541479 52.
45670252 -11.66830559 99.91649451
96 -13.63560823 10.57287448 -19.87603101 82.39016361
-24.17689954]
97 The next value: 185269480489.25357
98 Adjusted Numbers: [-0.87640824 0.89268698 -0.
74449632 -0.64079264 -0.95064254 -0.86550074
99 0.85878555 -0.59260631 0.57315842 0.79334259]
100 The next position: [ 5.56331806 55.94538418 37.
62830002 -24.43120446 80.98220315
101 -30.87409944 27.67761682 -31.67918523 93.8059672
-8.37560832]
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102 The next value: 179486359722.6521
103 Adjusted Numbers: [ 0.98067789 -0.56620603  0.
82615641 -0.97335525 -0.958698   0.51675731
104 -0.8599657 -0.73307221  0.67663423  0.66209691]
105 The next position: [ 25.0913419  44.67064766  54.
07937135 -43.81341401  61.89186012
106 -20.58402451  10.55330848 -46.27669141 107.27963617
4.80858225]
107 The next value: 129473119263.778
108 The best position: [-16.59559906  44.06489869 -99.
97712504 -39.53348547 -70.64882184
109 -81.53228105 -62.74795772 -30.88785459 -20.64650515
7.7633468 ]
110 The best value: 3367710.0602650642
111 Adjusted Numbers: [-0.66161097  0.870439   -0.
5910955  0.75623487 -0.94522481  0.84093502
112 -0.6653904  0.61737966 -0.71922612 -0.60379702]
113 The next position: [ -29.82781848  61.4736787  -
111.79903505 -24.40878802 -89.55331811
114 -64.71358064 -76.05576563 -18.54026145 -35.
03102761 -4.31259364]
115 The next value: 2806901.0805444745
116 Adjusted Numbers: [ 0.60148914  0.93652315 -0.
87315164  0.88464523  0.7527783  0.78921333
117 -0.82991158 -0.92189043 -0.66033916  0.75628501]
118 The next position: [ -17.80080259  80.19983373 -
117.45901638 -6.71995276 -74.5012148
119 -48.93294448 -92.65017958 -36.97382943 -48.
23477327 10.80962759]
120 The next value: 1274127056.6003811
121 Adjusted Numbers: [-0.80330633 -0.65778475  0.
91577906  0.56633057  0.88375423 -0.86896874
122 0.87300186  0.66925134 -0.96342345  0.50028863]
123 The next position: [-45.88655556  48.32403463 -81.
69284299 -13.08738626 -71.88636315
124 -82.08496181 -58.60375922 -5.16139098 -54.29063404
5.68857684]
125 The next value: 115045825.80871414
126 Adjusted Numbers: [ 0.97772218  0.99633131 -0.
93911202  0.57855866 -0.79354799 -0.60421295
127 0.81719101 -0.9127717 -0.92444932 -0.73994286]
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128 The next position: [ -10.28686439  81.38655867 -
118.76928355 -12.84559715 -105.4133294
129 -76.78950337 -59.72322015 -36.78310217 -53.
5072596 -19.10124189]
130 The next value: 251647780.64371565
131 Adjusted Numbers: [-0.96126608  0.85767107 -0.
57674377 -0.96890668 -0.51685368 -0.89327491
132 0.64823521 -0.70654285  0.67861107  0.89951672]
133 The next position: [ -49.03545897  78.61132432 -
111.52426694 -43.76909991 -99.88088491
134 -82.56264825 -63.10298482 -32.65812255 -21.
47128827 13.66119537]
135 The next value: 5799198.564688229
136 Adjusted Numbers: [-0.79533114 -0.67188802  0.
88880032 -0.67164146 -0.90009308  0.57179281
137 0.82758929  0.52977822  0.88918951  0.67311008]
138 The next position: [ -45.71615713  48.05136453 -
82.2444267 -37.82617659 -107.53448713
139 -53.29086959 -59.52300562 -7.95687627 -17.
26767932 9.13413357]
140 The next value: 59156.15767546801
141 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731 0.61478258 -0.70464633 -0.66929161
142 0.85501716 -0.80446828  0.50162421  0.95199597]
143 The next position: [ -29.6023355  33.57035259 -
96.65347231 -25.54748328 -114.07348946
144 -66.65823987 -42.44624731 -24.02405132 -7.
24903207 28.147793 ]
145 The next value: 58557.72967427368
146 Adjusted Numbers: [ 0.76661218  0.74734441  0.
50188487 -0.80220332 -0.96014422  0.79177244
147 -0.64381762  0.92968009  0.826883  0.74339144]
148 The next position: [ -14.29475974  48.49319298 -
86.63192449 -41.56573648 -119.17198901
149 -50.84826863 -55.30188309 -5.46036448  9.
26202058 42.99170112]
150 The next value: 3658129945.195953
151 Adjusted Numbers: [-0.77050805  0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
152 0.80675904  0.64735897 -0.99425935  0.73428983]
153 The next position: [ -44.9841647  51.51686715 -

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153 108.63491827 -12.43604874 -113.649387
154 -77.15782142 -26.34073134 -11.10067549 -27.
    09765968 42.80658942]
155 The next value: 1113442718.17986
156 Adjusted Numbers: [-0.8467102 0.5541162 0.
    7718842 -0.78546048 0.8170703 0.74672023
157 -0.96835751 0.85887447 0.88179384 0.9946457 ]
158 The next position: [-46.50151786 44.62975737 -81.
    24771496 -41.22420472 -83.69238957
159 -51.75472103 -61.77334446 -6.88208667 10.35037194
    47.99956655]
160 The next value: 278314451.2441396
161 The best position: [-65.53189833 -72.57285007 86.
    51909261 39.3636323 -86.79996546
162 51.09261052 50.77523769 84.60490711 42.30495173
    -75.14580761]
163 The best value: 11455289692.812613
164 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
    94338702 -0.50757786 0.7200559 0.57766213
165 0.60564396 0.68406178 -0.75165337 -0.94163264]
166 The next position: [-84.69256764 -91.4808671 67.
    69470304 29.23539943 -72.43193582
167 62.61930812 62.86028603 98.25470851 27.30642462
    -93.93519015]
168 The next value: 35727164917.64098
169 Adjusted Numbers: [ 0.67151854 0.9391915 0.
    62206044 -0.96270542 0.60126535 -0.53405145
170 0.61421039 -0.72427871 0.72708371 0.99424329]
171 The next position: [-52.13546726 -53.83648862 98.
    92886129 20.15818079 -74.80504761
172 40.43857342 63.02840219 70.15593926 56.80987775
    -55.31119279]
173 The next value: 113071382.32628876
174 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
    88016462 -0.75731309 -0.91089624 -0.78501174
175 -0.54858132 0.92597796 0.61943396 -0.97488804]
176 The next position: [-39.91962409 -68.33819498 81.
    37409255 5.05366986 -92.97275455
177 24.78161646 52.08701914 88.6244491 69.1644075
    -74.75520779]
178 The next value: 2763635987.5636053

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179 Adjusted Numbers: [-0.85605144  0.93455266  0.
63620092 -0.59341353 -0.99534851  0.98765171
180 -0.60914104  0.66271785  0.94003998  0.6936576 ]
181 The next position: [-69.20537478 -35.20124461 111.
61488741   8.32534737 -94.65257806
182 60.13262745  50.88195784  83.37072047  75.55454044
-41.47946426]
183 The next value: 3937860.360274177
184 Adjusted Numbers: [-0.52030448 -0.51246057  0.
73991144  0.6579618  -0.68641721 -0.9628476
185 -0.85995571 -0.52730978  0.71265892  0.63770287]
186 The next position: [-79.57800686 -45.41750287
114.75064961  21.4422739 -108.33678303
187 40.93759031  33.73814202  72.85843293  89.
76189222 -28.7664135 ]
188 The next value: 3580138075.977412
189 Adjusted Numbers: [-0.86527518  0.97723231  0.
65949044 -0.73971765  0.60189644  0.99066886
190 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
191 The next position: [-86.45127045 -15.72391901 113.
14437712 -6.4180473 -82.65611335
192 79.87775848  67.59351249  64.0343362  58.26768335
-56.62375229]
193 The next value: 241451.3057477582
194 Adjusted Numbers: [ 0.75943501 -0.57965198  0.
50551111 -0.86692704 -0.9793698  0.60950913
195 -0.61313143  0.77892176  0.54934062  0.84961594]
196 The next position: [-71.31836827 -27.27436974
110.07308064 -23.69289216 -102.171552
197 92.02315846  55.37593251  79.55554158  69.
21413391 -39.69385746]
198 The next value: 3136897.033879357
199 Adjusted Numbers: [-0.97340646 -0.86807782  0.
97013193  0.54435606  0.81563171  0.86394414
200 -0.97209685 -0.53127583  0.73355671  0.89803264]
201 The next position: [-105.84341915 -33.01771646
119.32691364  4.42658348 -66.40714442
202 97.08920498  48.22745367  53.45028906  72.
88155892 -38.73319655]
203 The next value: 1082530632.562773
204 Adjusted Numbers: [ 0.90035224  0.61330638  0.

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204 8312127  0.78313242 -0.71998457 -0.52801867
205  0.70862097  0.59909584  0.85236285  0.83746687]
206 The next position: [-68.51862928  -3.50847409  116.
55556397   9.17988431  -96.99630647
207  69.36101974  81.70737256  75.96674479  75.24450258
-39.94362172]
208 The next value: 1059082131.4397521
209 Adjusted Numbers: [-0.71024877  0.92652506 -0.
65208867 -0.74734096 -0.72984168  0.51132433
210 -0.95695039  0.89594042  0.65423094 -0.96996204]
211 The next position: [-100.59429852  2.72577125
87.0151014  -21.29968395  -97.18929073
212  90.05964775  48.53796926  81.87500134  71.
29524062  -75.93839363]
213 The next value: 14238820.566273553
214 Function 1: Best Value among Trials = 300.0000
215 The best position: [ 9.76270079  43.03787327  20.
55267521  8.9766366  -15.26904013
216  29.17882261 -12.48255775  78.35460016  92.7325521
-23.31169623]
217 The best value: 17278.409037858415
218 Adjusted Numbers: [ 0.58345008  0.55778984  0.
63608912  0.85119328 -0.85792788 -0.8257414
219 -0.95956321  0.66523969  0.5563135  0.7400243 ]
220 The next position: [ 21.43170231  54.19367006  33.
27445766  26.00050213 -32.4275978
221  12.6639946  -31.67382185  91.65939398  103.85882214
-8.5112103 ]
222 The next value: 18600.402664913836
223 Adjusted Numbers: [ 0.95723668  0.59831713 -0.
57704128  0.56105835 -0.76345115  0.77984204
224 -0.71329343  0.88933783  0.54369664 -0.67067612]
225 The next position: [ 28.90303119  55.00146358  9.
01450409  20.19522278 -30.53455122
226  44.77207619 -26.7451451  96.13726588  103.60398397
-36.72213353]
227 The next value: 23319.83027901745
228 Adjusted Numbers: [-0.97088878  0.54846738 -0.
58769934  0.6368679  -0.9624204  0.73527099
229  0.72419145  0.73386799  0.88749616  0.8636406 ]
230 The next position: [ -9.64614358  54.00217553  8.
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230 80409472 21.70813604 -34.50859487
231 43.87747878 1.99460937 93.02520922 110.47431122
      -6.04682885]
232 The next value: 18521.61866565871
233 Adjusted Numbers: [-0.7809842 -0.62593609 0.
     89526239 -0.87954906 0.83353343 0.84127574
234 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
235 The next position: [ -5.84620809 30.52778736 38.
     44557127 -8.60220955 1.39012837
236 45.99273046 -24.0592637 63.52189134 75.36167756
      -38.75260627]
237 The next value: 23736.303910856896
238 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
     97674768 -0.79591038 -0.58224649 -0.67738096
239 0.80621665 -0.99341679 -0.56737845 -0.51114882]
240 The next position: [ 22.55879243 30.59338932 40.
     06966278 -6.92693127 -26.90326025
241 15.64366284 3.626946 58.50453682 81.39541918
      -33.52527066]
242 The next value: 17985.007285253945
243 Adjusted Numbers: [-0.68206083 -0.77924972 0.
     81265918 -0.7236341 -0.60683528 -0.76254966
244 0.64198646 -0.80579745 0.67588981 -0.80780318]
245 The next position: [ -3.86283568 27.47079342 36.
     78717623 -5.47940942 -27.39179487
246 13.94536002 0.34241255 62.25717601 106.23481008
      -39.44918899]
247 The next value: 21440.78612289593
248 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
     95352218 0.70969104 0.97852716 -0.92162442
249 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
250 The next position: [ 28.79479394 31.79944287 39.
     59681666 23.15088118 4.27451122
251 10.77175652 -31.14450501 63.1834157 74.60319866
      -38.54155334]
252 The next value: 15006.791945057483
253 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
     87170501 0.88494424 0.63320291 -0.96922102
254 0.54649611 -0.81211898 0.65189299 0.8585924 ]
255 The next position: [ 11.54192381 18.3915692 22.
     19076605 40.8212904 16.91819432
```

```
256 -8.58147646 -20.23216791 46.96716833 87.62008201
      -21.39733305]
257 The next value: 9535.898918805104
258 Adjusted Numbers: [-0.8628621 0.83482076 -0.
    73640428 0.93265441 -0.92118781 -0.63361728
259 0.67302587 -0.95978491 0.65788006 -0.99060905]
260 The next position: [ -5.68359032 35.05728771 7.
    48975842 59.4400845 -1.47168953
261 -21.23052362 -6.79639794 27.80676184 100.75349267
      -41.17308892]
262 The next value: 11945.081999021244
263 Adjusted Numbers: [ 0.85563307 -0.95998405 0.
    97038804 0.92437709 -0.50249371 0.65231467
264 0.68408386 0.64450381 -0.55383673 0.90549802]
265 The next position: [28.61919465 -0.76840508 41.
    55838981 59.27059818 6.88910417 4.43783593
266 -6.57878569 59.83058664 76.56625507 -3.32482574]
267 The next value: 6055.195137888156
268 The best position: [-10.57492428 69.28173449 39.
    89585506 -40.51260983 62.75956394
269 -20.69885183 76.22063942 16.25457453 76.34707237
      38.50631802]
270 The best value: 21160.8494517206
271 Adjusted Numbers: [ 0.95050856 0.50264876 0.
    91216727 0.7879804 -0.6522899 0.71278643
272 -0.9616136 -0.89685037 0.82034707 -0.91984479]
273 The next position: [ 8.39156875 79.31161184 58.
    09728416 -24.78921147 49.74374018
274 -6.47587753 57.03255583 -1.64122036 92.71631694
      20.1516914 ]
275 The next value: 23893.30939806821
276 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
    72905187 -0.90343535 0.63992982 0.68174552
277 0.6486505 0.80640164 0.80420654 -0.63716313]
278 The next position: [ 4.10849252 56.46495378 25.
    35166526 -58.5356555 75.52581713
279 -7.09839806 89.16086538 32.34185029 92.39055708
      25.79525884]
280 The next value: 23963.159365043586
281 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
    62827015 0.78384671 0.61238798 0.90777717
```

```
282 -0.79954623 0.83896523 0.9284826 0.99769401]
283 The next position: [ 5.24321615 54.0263771 27.
    36508875 -24.87888927 74.97356242
284 -2.59335445 60.27379408 32.98762673 94.8655369
    58.40519518]
285 The next value: 14876.996432766544
286 Adjusted Numbers: [-0.70110339 0.73625211 -0.
    67501413 0.73111913 -0.75236003 0.69601646
287 0.61463792 0.63820148 -0.68563341 -0.86166601]
288 The next position: [ -8.73698349 68.70745222 13.
    90511632 -10.30016734 59.97129082
289 11.28541033 72.52984776 45.71354445 81.19381313
    41.22333158]
290 The next value: 12928.30575713041
291 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
    9441112 0.73276465 0.95104301 0.71160668
292 -0.97657183 -0.78004387 0.95998112 -0.65674065]
293 The next position: [ 9.10262469 56.8872862 32.
    72663035 4.30800614 78.93099533
294 25.471785 53.06120842 30.16282683 100.33170518
    28.1307496 ]
295 The next value: 14963.788548467108
296 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
    60000695 -0.96295641 0.58739541 -0.55215062
297 -0.80929664 0.85616259 0.9088288 -0.93632214]
298 The next position: [ 2.06713787 50.94237419 1.
    94631121 -29.49295844 71.67873386
299 0.28043497 56.39966664 62.77781599 99.30778088
    22.56139108]
300 The next value: 12837.597455874507
301 Adjusted Numbers: [-0.67061169 0.7429568 0.
    65445718 -0.52421436 0.868428 0.72793191
302 0.57126561 0.67981995 0.96024406 -0.87611001]
303 The next position: [-11.2958239 65.74692286 14.
    98736971 -39.93872989 88.98348762
304 14.78558974 67.78300606 76.32426651 118.44210988
    5.10356148]
305 The next value: 22588.331364885267
306 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
    62761399 0.88874478 0.97910159 -0.51908238
307 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
```

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308 The next position: [-11.94910254 39.38142119 -10.
55697934 -11.78743495 91.18434064
309 -10.06069505 45.53880576 43.02945144 81.69794449
9.98732263]
310 The next value: 9548.06466404378
311 Adjusted Numbers: [-0.87640824 0.89268698 -0.
74449632 -0.64079264 -0.95064254 -0.86550074
312 0.85878555 -0.59260631 0.57315842 0.79334259]
313 The next position: [-29.40484235 57.16139058 -25.
38538184 -24.55033382 72.25004928
314 -27.29918626 62.6435481 31.22629721 93.11374808
25.78861384]
315 The next value: 7983.549797270041
316 Adjusted Numbers: [0.98067789 -0.56620603 0.
82615641 -0.97335525 -0.958698 0.51675731
317 -0.8599657 -0.73307221 0.67663423 0.66209691]
318 The next position: [-9.87681851 45.88665406 -8.
93431052 -43.93254337 53.15970625
319 -17.00911133 45.51923975 16.62879104 106.58741705
38.97280441]
320 The next value: 10747.852271574606
321 The best position: [-16.59559906 44.06489869 -99.
97712504 -39.53348547 -70.64882184
322 -81.53228105 -62.74795772 -30.88785459 -20.64650515
7.7633468 ]
323 The best value: 21430.204541082152
324 Adjusted Numbers: [-0.66161097 0.870439 -0.
5910955 0.75623487 -0.94522481 0.84093502
325 -0.6653904 0.61737966 -0.71922612 -0.60379702]
326 The next position: [-29.82781848 61.4736787 -
111.79903505 -24.40878802 -89.55331811
327 -64.71358064 -76.05576563 -18.54026145 -35.
03102761 -4.31259364]
328 The next value: 26960.85426036612
329 Adjusted Numbers: [0.60148914 0.93652315 -0.
87315164 0.88464523 0.7527783 0.78921333
330 -0.82991158 -0.92189043 -0.66033916 0.75628501]
331 The next position: [-4.56858316 62.79105371 -
117.43614141 -21.84465021 -55.59671852
332 -65.75164489 -79.34237168 -49.32142257 -33.
85025081 22.88556803]

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333 The next value: 23899.855010300667
334 Adjusted Numbers: [-0.80330633 -0.65778475 0.
91577906 0.56633057 0.88375423 -0.86896874
335 0.87300186 0.66925134 -0.96342345 0.50028863]
336 The next position: [-32.65433614 30.91525461 -81.
66996803 -28.21208372 -52.98186688
337 -98.90366221 -45.29595131 -17.50898412 -39.90611158
17.76451727]
338 The next value: 19781.95857539053
339 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
93911202 0.57855866 -0.79354799 -0.60421295
340 0.81719101 -0.9127717 -0.92444932 -0.73994286]
341 The next position: [ -13.11338204 50.82813458 -
100.43925158 -16.64889285 -68.84187818
342 -110.97958494 -28.96340583 -35.75182483 -58.
38234357 2.97586902]
343 The next value: 19937.305322963053
344 Adjusted Numbers: [-0.96126608 0.85767107 -0.
57674377 -0.96890668 -0.51685368 -0.89327491
345 0.64823521 -0.70654285 0.67861107 0.89951672]
346 The next position: [ -51.86197663 48.05290023 -
93.19423496 -47.57239561 -63.30943368
347 -116.75272982 -32.3431705 -31.62684522 -26.
34637224 35.73830627]
348 The next value: 22834.668771516022
349 Adjusted Numbers: [-0.79533114 -0.67188802 0.
88880032 -0.67164146 -0.90009308 0.57179281
350 0.82758929 0.52977822 0.88918951 0.67311008]
351 The next position: [-48.54267478 17.49294044 -63.
91439473 -41.62947229 -70.9630359
352 -87.48095116 -28.7631913 -6.92559893 -22.1427633
31.21124448]
353 The next value: 21291.12841959235
354 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731 0.61478258 -0.70464633 -0.66929161
355 0.85501716 -0.80446828 0.50162421 0.95199597]
356 The next position: [ -16.54051451 16.43424267 -
96.07901364 -15.93339041 -67.05535634
357 -112.2710325 -28.219193 -33.57615917 -29.
88746433 36.7781767 ]
358 The next value: 15187.928190824157
```

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359 Adjusted Numbers: [ 0.76661218  0.74734441  0.
50188487 -0.80220332 -0.96014422  0.79177244
360 -0.64381762  0.92968009  0.826883   0.74339144]
361 The next position: [ -1.23293875  31.35708306 -86.
05746582 -31.9516436  -86.22734535
362 -84.19002876 -41.07482878 -15.01247233 -13.37641168
51.62208482]
363 The next value: 13957.309027817755
364 Adjusted Numbers: [-0.77050805  0.89897852 -0.
60017573  0.65677923 -0.68372639 -0.52594604
0.80675904  0.64735897 -0.99425935  0.73428983]
365 The next position: [-16.61476795  49.30359762 -98.
03891179 -18.84020906 -99.87673236
367 -94.68961031 -24.9693128   -2.08909651 -33.2250393
66.28088124]
368 The next value: 17246.64693980898
369 Adjusted Numbers: [-0.8467102   0.5541162   0.
7718842  -0.78546048  0.8170703   0.74672023
-0.96835751  0.85887447  0.88179384  0.9946457 ]
371 The next position: [-18.13212111  42.41648784 -70.
65170847 -47.62836504 -69.91973492
372 -69.28650992 -60.40192593  2.12949231  4.22299232
71.47385837]
373 The next value: 18366.620242182315
374 The best position: [-65.53189833 -72.57285007  86.
51909261  39.3636323  -86.79996546
51.09261052  50.77523769  84.60490711  42.30495173
-75.14580761]
376 The best value: 38988.69474870686
377 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786  0.7200559   0.57766213
0.60564396  0.68406178 -0.75165337 -0.94163264]
379 The next position: [-84.69256764 -91.4808671   67.
69470304  29.23539943 -72.43193582
380 62.61930812  62.86028603  98.25470851  27.30642462
-93.93519015]
381 The next value: 42363.29699409253
382 Adjusted Numbers: [ 0.67151854  0.9391915   0.
62206044 -0.96270542  0.60126535 -0.53405145
0.61421039 -0.72427871  0.72708371  0.99424329]
384 The next position: [-52.13546726 -53.83648862  98.

```

```
384 92886129 20.15818079 -74.80504761
385 40.43857342 63.02840219 70.15593926 56.80987775
      -55.31119279]
386 The next value: 34442.86403731364
387 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
     88016462 -0.75731309 -0.91089624 -0.78501174
     -0.54858132 0.92597796 0.61943396 -0.97488804]
388 -0.54858132 0.92597796 0.61943396 -0.97488804]
389 The next position: [-39.91962409 -68.33819498 81.
     37409255 5.05366986 -92.97275455
390 24.78161646 52.08701914 88.6244491 69.1644075
      -74.75520779]
391 The next value: 37243.985838019595
392 Adjusted Numbers: [-0.85605144 0.93455266 0.
     63620092 -0.59341353 -0.99534851 0.98765171
     -0.60914104 0.66271785 0.94003998 0.6936576 ]
393 -0.60914104 0.66271785 0.94003998 0.6936576 ]
394 The next position: [-69.20537478 -35.20124461 111.
     61488741 8.32534737 -94.65257806
395 60.13262745 50.88195784 83.37072047 75.55454044
      -41.47946426]
396 The next value: 53555.70378252576
397 Adjusted Numbers: [-0.52030448 -0.51246057 0.
     73991144 0.6579618 -0.68641721 -0.9628476
     -0.85995571 -0.52730978 0.71265892 0.63770287]
398 -0.85995571 -0.52730978 0.71265892 0.63770287]
399 The next position: [-62.50809934 -64.05274688 113.
     6795109 33.27510732 -88.48925258
400 21.24353628 45.88458637 59.64365172 71.01722953
      -42.59814203]
401 The next value: 42974.999283349935
402 Adjusted Numbers: [-0.86527518 0.97723231 0.
     65949044 -0.73971765 0.60189644 0.99066886
     0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
403 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
404 The next position: [-69.38136293 -34.35916302 112.
     07323841 5.41478612 -62.8085829
405 60.18370445 79.73995684 50.819555 39.52302067
      -70.45548082]
406 The next value: 41485.18230544718
407 Adjusted Numbers: [ 0.75943501 -0.57965198 0.
     50551111 -0.86692704 -0.9793698 0.60950913
     -0.61313143 0.77892176 0.54934062 0.84961594]
408 -0.61313143 0.77892176 0.54934062 0.84961594]
409 The next position: [-37.00256508 -65.38693935 109.
     00194194 2.88333592 -94.32048626
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410 52.5839734 50.81082221 85.67714464 67.75632832
    -38.38129796]
411 The next value: 37576.70662737901
412 Adjusted Numbers: [-0.97340646 -0.86807782 0.
    97013193 0.54435606 0.81563171 0.86394414
413 -0.97209685 -0.53127583 0.73355671 0.89803264]
414 The next position: [-71.52761596 -71.13028607 118.
    25577494 31.00281156 -58.55607869
415 57.65001993 43.66234337 59.57189212 71.42375333
    -37.42063705]
416 The next value: 36301.22779273146
417 Adjusted Numbers: [ 0.90035224 0.61330638 0.
    8312127 0.78313242 -0.71998457 -0.52801867
418 0.70862097 0.59909584 0.85236285 0.83746687]
419 The next position: [-34.20282609 -41.6210437 115.
    48442526 35.75611239 -89.14524073
420 29.92183468 77.14226226 82.08834784 73.78669698
    -38.63106222]
421 The next value: 31072.337666738254
422 Adjusted Numbers: [-0.71024877 0.92652506 -0.
    65208867 -0.74734096 -0.72984168 0.51132433
423 -0.95695039 0.89594042 0.65423094 -0.96996204]
424 The next position: [ -48.34585416 -23.17135345
    87.0151014 20.87447574 -103.67841811
425 40.10372395 58.08671903 99.92901298 86.
    81425425 -57.94570357]
426 The next value: 44762.304275757255
427 Function 2: Best Value among Trials = 400.0000
428 The best position: [ 9.76270079 43.03787327 20.
    55267521 8.9766366 -15.26904013
429 29.17882261 -12.48255775 78.35460016 92.7325521
    -23.31169623]
430 The best value: 766.989583973909
431 Adjusted Numbers: [ 0.58345008 0.55778984 0.
    63608912 0.85119328 -0.85792788 -0.8257414
432 -0.95956321 0.66523969 0.5563135 0.7400243 ]
433 The next position: [ 21.43170231 54.19367006 33.
    27445766 26.00050213 -32.4275978
434 12.6639946 -31.67382185 91.65939398 103.85882214
    -8.5112103 ]
435 The next value: 779.8477560925571

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436 Adjusted Numbers: [ 0.95723668  0.59831713 -0.  
57704128  0.56105835 -0.76345115  0.77984204  
437 -0.71329343  0.88933783  0.54369664 -0.67067612]  
438 The next position: [ 28.90303119  55.00146358   9.  
01450409  20.19522278 -30.53455122  
439 44.77207619 -26.7451451    96.13726588 103.60398397  
-36.72213353]  
440 The next value: 797.7447056956131  
441 Adjusted Numbers: [-0.97088878  0.54846738 -0.  
58769934  0.6368679 -0.9624204   0.73527099  
442 0.72419145  0.73386799  0.88749616  0.8636406 ]  
443 The next position: [ -9.64614358  54.00217553   8.  
80409472  21.70813604 -34.50859487  
444 43.87747878  1.99460937  93.02520922 110.47431122  
-6.04682885]  
445 The next value: 766.0226078873043  
446 Adjusted Numbers: [-0.7809842 -0.62593609  0.  
89526239 -0.87954906  0.83353343  0.84127574  
447 -0.57923488 -0.7421474 -0.8691433 -0.77257846]  
448 The next position: [ -25.25505245  41.49208962  26.  
69699077  4.12928989 -17.84942636  
449 60.69138663 -9.58209659  78.19250041  82.62912546  
-21.48773888]  
450 The next value: 806.2774561830888  
451 Adjusted Numbers: [ 0.64039354 -0.62279697  0.  
97674768 -0.79591038 -0.58224649 -0.67738096  
452 0.80621665 -0.99341679 -0.56737845 -0.51114882]  
453 The next position: [ 3.14994806  41.55769158   28.  
32108228  5.80456817 -46.14281498  
454 30.34231901  18.10411312  73.17514589  88.66286708  
-16.26040328]  
455 The next value: 809.1482191478484  
456 Adjusted Numbers: [-0.68206083 -0.77924972  0.  
81265918 -0.7236341 -0.60683528 -0.76254966  
457 0.64198646 -0.80579745  0.67588981 -0.80780318]  
458 The next position: [ -23.27168005  38.43509568  25.  
03859573  7.25209003 -46.63134961  
459 28.64401618  14.81957966  76.92778507 113.50225798  
-22.18432161]  
460 The next value: 808.8507263166102  
461 Adjusted Numbers: [ 0.95291893 -0.5626976   0.
```

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461 95352218 0.70969104 0.97852716 -0.92162442
462 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
463 The next position: [ 9.38594958 42.76374512 27.
84823616 35.88238062 -14.96504351
464 25.47041268 -16.6673379 77.85402477 81.87064656
-21.27668596]
465 The next value: 817.8724632630251
466 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
87170501 0.88494424 0.63320291 -0.96922102
467 0.54649611 -0.81211898 0.65189299 0.8585924 ]
468 The next position: [-26.89901371 40.59430186 -8.
60195589 39.37854527 -21.86491177
469 24.52424581 12.90694647 76.80896185 113.01688335
11.09739145]
470 The next value: 741.6374175160548
471 Adjusted Numbers: [-0.8628621 0.83482076 -0.
73640428 0.93265441 -0.92118781 -0.63361728
472 0.67302587 -0.95978491 0.65788006 -0.99060905]
473 The next position: [-44.12452784 57.26002038 -23.
30296352 57.99733937 -40.25479561
474 11.87519864 26.34271644 57.64855536 113.13341066
-8.67836443]
475 The next value: 846.4825836834634
476 Adjusted Numbers: [ 0.85563307 -0.95998405 0.
97038804 0.92437709 -0.50249371 0.65231467
477 0.68408386 0.64450381 -0.55383673 0.90549802]
478 The next position: [ -9.82174288 21.43432759 10.
76566787 57.82785305 -31.89400192
479 37.54355819 26.56032869 89.67238016 88.94617306
29.16989876]
480 The next value: 756.0808607860142
481 The best position: [-10.57492428 69.28173449 39.
89585506 -40.51260983 62.75956394
482 -20.69885183 76.22063942 16.25457453 76.34707237
38.50631802]
483 The best value: 730.2597475485102
484 Adjusted Numbers: [ 0.95050856 0.50264876 0.
91216727 0.7879804 -0.6522899 0.71278643
485 -0.9616136 -0.89685037 0.82034707 -0.91984479]
486 The next position: [ 8.39156875 79.31161184 58.
09728416 -24.78921147 49.74374018
```

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487 -6.47587753 57.03255583 -1.64122036 92.71631694
    20.1516914 ]
488 The next value: 765.0166946682422
489 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
    72905187 -0.90343535 0.63992982 0.68174552
490 0.6486505 0.80640164 0.80420654 -0.63716313]
491 The next position: [ 4.10849252 56.46495378 25.
    35166526 -58.5356555 75.52581713
492 -7.09839806 89.16086538 32.34185029 92.39055708
    25.79525884]
493 The next value: 683.2015666102202
494 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
    62827015 0.78384671 0.61238798 0.90777717
495 -0.79954623 0.83896523 0.9284826 0.99769401]
496 The next position: [ 19.92663295 41.20959638 12.
    82089895 -42.90193494 87.73981561
497 11.00709932 73.21402004 49.0749025 110.90902161
    45.694136 ]
498 The next value: 757.4899300670161
499 Adjusted Numbers: [-0.70110339 0.73625211 -0.
    67501413 0.73111913 -0.75236003 0.69601646
500 0.61463792 0.63820148 -0.68563341 -0.86166601]
501 The next position: [ -9.87170712 71.14602891 11.
    89169284 -43.95693357 60.52354554
502 6.78036672 101.41691906 45.06776801 78.71883332
    8.61339523]
503 The next value: 761.9848674051419
504 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
    9441112 0.73276465 0.95104301 0.71160668
505 -0.97657183 -0.78004387 0.95998112 -0.65674065]
506 The next position: [ 21.9481007 44.64478776 44.
    17317929 -43.92748202 94.48552164
507 7.08797661 69.69222604 16.79113266 111.52844914
    12.70267685]
508 The next value: 733.6861688826707
509 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
    60000695 -0.96295641 0.58739541 -0.55215062
510 -0.80929664 0.85616259 0.9088288 -0.93632214]
511 The next position: [ 14.91261388 38.69987575 13.
    39286015 -77.72844659 87.23326017
512 -18.10337342 73.03068426 49.40612183 110.50452484

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```
512    7.13331833]
513 The next value: 747.4587114545583
514 Adjusted Numbers: [-0.67061169  0.7429568   0.
65445718 -0.52421436  0.868428    0.72793191
515  0.57126561  0.67981995  0.96024406 -0.87611001]
516 The next position: [ -9.25446925  71.26950244  38.
39272376 -68.98142695  92.83057089
517  7.40675671 100.5442048   45.88830081 111.52488608
8.33742924]
518 The next value: 777.2180540908795
519 Adjusted Numbers: [-0.70355788 -0.5803125   -0.
62761399  0.88874478  0.97910159 -0.51908238
520 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
521 The next position: [ -9.90774788  44.90400077  12.
84837471 -40.83013201  95.03142391
522 -17.43952808  78.3000045   12.59348574  74.78072069
13.22119039]
523 The next value: 713.7960287776499
524 Adjusted Numbers: [-0.87640824  0.89268698 -0.
74449632 -0.64079264 -0.95064254 -0.86550074
525  0.85878555 -0.59260631  0.57315842  0.79334259]
526 The next position: [-13.34724729  74.24492318  10.
52326276 -71.29855436  56.59152577
527 -24.33688927 106.26560772  20.53869607 103.80636068
41.59655006]
528 The next value: 754.90550953089
529 Adjusted Numbers: [ 0.98067789 -0.56620603  0.
82615641 -0.97335525 -0.958698    0.51675731
530 -0.8599657  -0.73307221  0.67663423  0.66209691]
531 The next position: [ 23.63651636  45.19021726  41.
80273659 -77.91786505  56.4354741
532  3.19167687  72.03655703  17.74434412 105.86422605
38.97944941]
533 The next value: 750.1551654778252
534 The best position: [-16.59559906  44.06489869 -99.
97712504 -39.53348547 -70.64882184
535 -81.53228105 -62.74795772 -30.88785459 -20.64650515
7.7633468 ]
536 The best value: 895.8631703198487
537 Adjusted Numbers: [-0.66161097  0.870439   -0.
5910955  0.75623487 -0.94522481  0.84093502
```

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538 -0.6653904 0.61737966 -0.71922612 -0.60379702]
539 The next position: [ -29.82781848 61.4736787 -
  111.79903505 -24.40878802 -89.55331811
540 -64.71358064 -76.05576563 -18.54026145 -35.
  03102761 -4.31259364]
541 The next value: 818.683139678419
542 Adjusted Numbers: [ 0.60148914 0.93652315 -0.
  87315164 0.88464523 0.7527783 0.78921333
543 -0.82991158 -0.92189043 -0.66033916 0.75628501]
544 The next position: [ -17.80080259 80.19983373 -
  117.45901638 -6.71995276 -74.5012148
545 -48.93294448 -92.65017958 -36.97382943 -48.
  23477327 10.80962759]
546 The next value: 911.06868243111
547 Adjusted Numbers: [-0.80330633 -0.65778475 0.
  91577906 0.56633057 0.88375423 -0.86896874
548 0.87300186 0.66925134 -0.96342345 0.50028863]
549 The next position: [-45.88655556 48.32403463 -81.
  69284299 -13.08738626 -71.88636315
550 -82.08496181 -58.60375922 -5.16139098 -54.29063404
  5.68857684]
551 The next value: 823.295838330215
552 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
  93911202 0.57855866 -0.79354799 -0.60421295
553 0.81719101 -0.9127717 -0.92444932 -0.73994286]
554 The next position: [ -10.28686439 81.38655867 -
  118.76928355 -12.84559715 -105.4133294
555 -76.78950337 -59.72322015 -36.78310217 -53.
  5072596 -19.10124189]
556 The next value: 845.26580717807
557 Adjusted Numbers: [-0.96126608 0.85767107 -0.
  57674377 -0.96890668 -0.51685368 -0.89327491
558 0.64823521 -0.70654285 0.67861107 0.89951672]
559 The next position: [ -49.03545897 78.61132432 -
  111.52426694 -43.76909991 -99.88088491
560 -82.56264825 -63.10298482 -32.65812255 -21.
  47128827 13.66119537]
561 The next value: 901.8351592294576
562 Adjusted Numbers: [-0.79533114 -0.67188802 0.
  88880032 -0.67164146 -0.90009308 0.57179281
563 0.82758929 0.52977822 0.88918951 0.67311008]

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564 The next position: [ -45.71615713  48.05136453  -
82.2444267  -37.82617659 -107.53448713
565  -53.29086959  -59.52300562  -7.95687627  -17.
26767932  9.13413357]
566 The next value: 840.4052261895229
567 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731  0.61478258 -0.70464633 -0.66929161
568  0.85501716 -0.80446828  0.50162421  0.95199597]
569 The next position: [ -13.71399686  46.99266676  -
114.40904561  -12.13009472 -103.62680757
570  -78.08095092  -58.97900732  -34.6074365  -25.
01238035  14.70106579]
571 The next value: 811.7444878538399
572 Adjusted Numbers: [ 0.76661218  0.74734441  0.
50188487 -0.80220332 -0.96014422  0.79177244
573  -0.64381762  0.92968009  0.826883  0.74339144]
574 The next position: [ 1.5935789  61.91550715  -
89.97845219  -28.14834791 -119.17198901
575  -62.27097968  -71.8346431  -16.04374967  -8.
50132771  29.54497391]
576 The next value: 821.6993862162141
577 Adjusted Numbers: [-0.77050805  0.89897852 -0.
60017573  0.65677923 -0.68372639 -0.52594604
578  0.80675904  0.64735897 -0.99425935  0.73428983]
579 The next position: [ -29.09582606  64.93918132  -
111.98144597  0.98133983 -113.649387
580  -88.58053247  -42.87349134  -21.68406068  -44.
86100797  29.35986221]
581 The next value: 798.0065568923062
582 Adjusted Numbers: [-0.8467102  0.5541162  0.
7718842  -0.78546048  0.8170703  0.74672023
583  -0.96835751  0.85887447  0.88179384  0.9946457 ]
584 The next position: [-45.99500842  75.99858609 -84.
59424265 -14.6953816  -83.69238957
585  -73.67701363  -62.20058849  -4.54209603 -27.26160397
49.21163576]
586 The next value: 780.5030088317012
587 The best position: [-65.53189833 -72.57285007  86.
51909261  39.3636323  -86.79996546
588  51.09261052  50.77523769  84.60490711  42.30495173
-75.14580761]

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```
589 The best value: 895.0409613061543
590 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
591 0.60564396 0.68406178 -0.75165337 -0.94163264]
592 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
593 62.61930812 62.86028603 98.25470851 27.30642462
-93.93519015]
594 The next value: 892.9464269380362
595 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
596 0.61421039 -0.72427871 0.72708371 0.99424329]
597 The next position: [-71.29613657 -72.74450564 80.
10447173 10.02994792 -60.43701797
598 51.96527102 75.11345053 83.80574066 41.81135065
-74.10057533]
599 The next value: 822.6591922578762
600 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
601 -0.54858132 0.92597796 0.61943396 -0.97488804]
602 The next position: [-59.0802934 -87.246212 62.
54970298 -5.07456301 -78.60472492
603 36.30831406 64.17206749 102.2742505 54.1658804
-93.54459033]
604 The next value: 855.87313204047
605 Adjusted Numbers: [-0.85605144 0.93455266 0.
63620092 -0.59341353 -0.99534851 0.98765171
606 -0.60914104 0.66271785 0.94003998 0.6936576 ]
607 The next position: [-88.36604409 -54.10926163 92.
79049785 -1.80288549 -80.28454842
608 71.65932505 62.96700618 97.02052187 60.55601333
-60.2688468 ]
609 The next value: 871.4643189952466
610 Adjusted Numbers: [-0.52030448 -0.51246057 0.
73991144 0.6579618 -0.68641721 -0.9628476
611 -0.85995571 -0.52730978 0.71265892 0.63770287]
612 The next position: [-81.66876864 -82.9607639 94.
85512134 23.14687445 -74.12122295
613 32.77023388 57.96963471 73.29345312 56.01870243
-61.38752457]
614 The next value: 867.3395507175551
```

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615 Adjusted Numbers: [-0.86527518  0.97723231  0.
                      65949044 -0.73971765  0.60189644  0.99066886
616   0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
617 The next position: [-88.54203224 -53.26718004  93.
                        24884885 -4.71344675 -48.44055327
618   71.71040205  91.82500518  64.4693564   24.52449356
                     -89.24486336]
619 The next value: 894.9425777572508
620 Adjusted Numbers: [ 0.75943501 -0.57965198  0.
                      50551111 -0.86692704 -0.9793698   0.60950913
621   -0.61313143  0.77892176  0.54934062  0.84961594]
622 The next position: [-56.16323439 -84.29495637  90.
                        17755237 -7.24489694 -79.95245662
623   64.110671    62.89587055  99.32694604  52.75780121
                     -57.1706805 ]
624 The next value: 854.3292814061618
625 Adjusted Numbers: [-0.97340646 -0.86807782  0.
                      97013193  0.54435606  0.81563171  0.86394414
626   -0.97209685 -0.53127583  0.73355671  0.89803264]
627 The next position: [-90.68828527 -90.03830309  99.
                        43138537  20.8745787 -44.18804905
628   69.17671753  55.74739171  73.22169352  56.42522622
                     -56.21001959]
629 The next value: 897.638480376828
630 Adjusted Numbers: [ 0.90035224  0.61330638  0.
                      8312127   0.78313242 -0.71998457 -0.52801867
631   0.70862097  0.59909584  0.85236285  0.83746687]
632 The next position: [-53.3634954 -60.52906072  96.
                        66003569  25.62787953 -74.77721109
633   41.44853229  89.2273106   95.73814924  58.78816988
                     -57.42044477]
634 The next value: 931.0312179096966
635 Adjusted Numbers: [-0.71024877  0.92652506 -0.
                      65208867 -0.74734096 -0.72984168  0.51132433
636   -0.95695039  0.89594042  0.65423094 -0.96996204]
637 The next position: [-85.43916464 -54.29481539  67.
                        11957312 -4.85168873 -74.97019536
638   62.14716029  56.0579073   101.64640579  54.83890792
                     -93.41521668]
639 The next value: 920.9883344505113
640 Function 3: Best Value among Trials = 661.6445

```

```

641 The best position: [ 9.76270079 43.03787327 20.
55267521 8.9766366 -15.26904013
642 29.17882261 -12.48255775 78.35460016 92.7325521
-23.31169623]
643 The best value: 977.0710132573996
644 Adjusted Numbers: [ 0.58345008 0.55778984 0.
63608912 0.85119328 -0.85792788 -0.8257414
645 -0.95956321 0.66523969 0.5563135 0.7400243 ]
646 The next position: [ 21.43170231 54.19367006 33.
27445766 26.00050213 -32.4275978
647 12.6639946 -31.67382185 91.65939398 103.85882214
-8.5112103 ]
648 The next value: 991.5206039638883
649 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
57704128 0.56105835 -0.76345115 0.77984204
650 -0.71329343 0.88933783 0.54369664 -0.67067612]
651 The next position: [ 28.90303119 55.00146358 9.
01450409 20.19522278 -30.53455122
652 44.77207619 -26.7451451 96.13726588 103.60398397
-36.72213353]
653 The next value: 1019.6798169034524
654 Adjusted Numbers: [-0.97088878 0.54846738 -0.
58769934 0.6368679 -0.9624204 0.73527099
655 0.72419145 0.73386799 0.88749616 0.8636406 ]
656 The next position: [ -9.64614358 54.00217553 8.
80409472 21.70813604 -34.50859487
657 43.87747878 1.99460937 93.02520922 110.47431122
-6.04682885]
658 The next value: 1028.7350850699845
659 Adjusted Numbers: [-0.7809842 -0.62593609 0.
89526239 -0.87954906 0.83353343 0.84127574
660 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
661 The next position: [ -5.84620809 30.52778736 38.
44557127 -8.60220955 1.39012837
662 45.99273046 -24.0592637 63.52189134 75.36167756
-38.75260627]
663 The next value: 1003.1358034529884
664 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
97674768 -0.79591038 -0.58224649 -0.67738096
665 0.80621665 -0.99341679 -0.56737845 -0.51114882]
666 The next position: [ 22.55879243 30.59338932 40.

```

```
666 06966278 -6.92693127 -26.90326025
667 15.64366284 3.626946 58.50453682 81.39541918
    -33.52527066]
668 The next value: 931.8294920075655
669 Adjusted Numbers: [-0.68206083 -0.77924972 0.
    81265918 -0.7236341 -0.60683528 -0.76254966
670 0.64198646 -0.80579745 0.67588981 -0.80780318]
671 The next position: [ 8.93325596 15.02630947 56.
    30416379 -21.38297729 -39.02601499
672 0.41020024 16.4519163 42.40711267 94.89767716
    -49.66276342]
673 The next value: 967.6195346517566
674 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
    95352218 0.70969104 0.97852716 -0.92162442
675 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
676 The next position: [ 41.59088558 19.35495892 59.
    11380422 7.24731331 -7.3597089
677 -2.76340326 -15.03500126 43.33335237 63.26606574
    -48.75512777]
678 The next value: 959.5398627795412
679 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
    87170501 0.88494424 0.63320291 -0.96922102
680 0.54649611 -0.81211898 0.65189299 0.8585924 ]
681 The next position: [ 5.30592229 17.18551566 22.
    66361217 10.74347795 -14.25957715
682 -3.70957013 14.5392831 42.28828945 94.41230252
    -16.38105036]
683 The next value: 969.5914805311145
684 Adjusted Numbers: [-0.8628621 0.83482076 -0.
    73640428 0.93265441 -0.92118781 -0.63361728
685 0.67302587 -0.95978491 0.65788006 -0.99060905]
686 The next position: [ 5.3332783 47.25910784 25.
    36865515 11.69186283 -45.2931441
687 2.99461567 17.06271597 39.34413033 94.52882984
    -53.30102653]
688 The next value: 943.6054368112773
689 Adjusted Numbers: [ 0.85563307 -0.95998405 0.
    97038804 0.92437709 -0.50249371 0.65231467
690 0.68408386 0.64450381 -0.55383673 0.90549802]
691 The next position: [ 39.63606326 11.43341505 59.
    43728654 11.52237651 -36.9323504
```

```
692 28.66297522 17.28032822 71.36795513 70.34159224
    -15.45276335]
693 The next value: 980.0240679622452
694 The best position: [-10.57492428 69.28173449 39.
    89585506 -40.51260983 62.75956394
695 -20.69885183 76.22063942 16.25457453 76.34707237
    38.50631802]
696 The best value: 972.9463023296692
697 Adjusted Numbers: [ 0.95050856 0.50264876 0.
    91216727 0.7879804 -0.6522899 0.71278643
698 -0.9616136 -0.89685037 0.82034707 -0.91984479]
699 The next position: [ 8.39156875 79.31161184 58.
    09728416 -24.78921147 49.74374018
700 -6.47587753 57.03255583 -1.64122036 92.71631694
    20.1516914 ]
701 The next value: 985.6281147858235
702 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
    72905187 -0.90343535 0.63992982 0.68174552
703 0.6486505 0.80640164 0.80420654 -0.63716313]
704 The next position: [ 4.10849252 56.46495378 25.
    35166526 -58.5356555 75.52581713
705 -7.09839806 89.16086538 32.34185029 92.39055708
    25.79525884]
706 The next value: 995.2747444667597
707 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
    62827015 0.78384671 0.61238798 0.90777717
708 -0.79954623 0.83896523 0.9284826 0.99769401]
709 The next position: [ 5.24321615 54.0263771 27.
    36508875 -24.87888927 74.97356242
710 -2.59335445 60.27379408 32.98762673 94.8655369
    58.40519518]
711 The next value: 1018.7766834050234
712 Adjusted Numbers: [-0.70110339 0.73625211 -0.
    67501413 0.73111913 -0.75236003 0.69601646
713 0.61463792 0.63820148 -0.68563341 -0.86166601]
714 The next position: [-24.55512392 83.96280962 26.
    43588264 -25.9338879 47.75729235
715 -6.82008705 88.4766931 28.98049225 62.6753486
    21.32445441]
716 The next value: 994.8618818932345
717 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
```

```
717 9441112  0.73276465  0.95104301  0.71160668
718 -0.97657183 -0.78004387  0.95998112 -0.65674065]
719 The next position: [ 7.2646839  57.46156847  58.
    71736909 -25.90443635  81.71926845
720 -6.51247716  56.75200008  0.7038569   95.48496442
    25.41373603]
721 The next value: 1009.3550352747659
722 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
    60000695 -0.96295641  0.58739541 -0.55215062
723 -0.80929664  0.85616259  0.9088288  -0.93632214]
724 The next position: [ 0.22919708  51.51665647  27.
    93704995 -59.70540093  74.46700698
725 -31.70382719  60.0904583   33.31884606  94.46104012
    19.84437751]
726 The next value: 1024.9838181733498
727 Adjusted Numbers: [-0.67061169  0.7429568   0.
    65445718 -0.52421436  0.868428   0.72793191
728 0.57126561  0.67981995  0.96024406 -0.87611001]
729 The next position: [-23.93788605  84.08628316  52.
    93691356 -50.95838128  80.06431769
730 -6.19369706  87.60397884  29.80102505  95.48140137
    21.04848842]
731 The next value: 1061.4795348214664
732 Adjusted Numbers: [-0.70355788 -0.5803125  -0.
    62761399  0.88874478  0.97910159 -0.51908238
733 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
734 The next position: [-24.59116468  57.72078149  27.
    39256451 -22.80708634  82.26517072
735 -31.03998185  65.35977854  -3.49379003  58.73723598
    25.93224956]
736 The next value: 1009.2299594767817
737 Adjusted Numbers: [-0.87640824  0.89268698 -0.
    74449632 -0.64079264 -0.95064254 -0.86550074
738 0.85878555 -0.59260631  0.57315842  0.79334259]
739 The next position: [-28.03066409  87.06170389  25.
    06745256 -53.2755087   43.82527258
740 -37.93734304  93.32538176   4.4514203   87.76287596
    54.30760924]
741 The next value: 1014.5823538055248
742 Adjusted Numbers: [ 0.98067789 -0.56620603  0.
    82615641 -0.97335525 -0.958698   0.51675731
```

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743 -0.8599657 -0.73307221 0.67663423 0.66209691]
744 The next position: [ 8.95309956 58.00699797 56.
34692639 -59.89481938 43.6692209
745 -10.4087769 59.09633108 1.65706835 89.82074134
51.69050858]
746 The next value: 974.1707169460391
747 The best position: [-16.59559906 44.06489869 -99.
97712504 -39.53348547 -70.64882184
748 -81.53228105 -62.74795772 -30.88785459 -20.64650515
7.7633468 ]
749 The best value: 995.1462276686821
750 Adjusted Numbers: [-0.66161097 0.870439 -0.
5910955 0.75623487 -0.94522481 0.84093502
751 -0.6653904 0.61737966 -0.71922612 -0.60379702]
752 The next position: [ -29.82781848 61.4736787 -
111.79903505 -24.40878802 -89.55331811
753 -64.71358064 -76.05576563 -18.54026145 -35.
03102761 -4.31259364]
754 The next value: 1079.238562154015
755 Adjusted Numbers: [ 0.60148914 0.93652315 -0.
87315164 0.88464523 0.7527783 0.78921333
756 -0.82991158 -0.92189043 -0.66033916 0.75628501]
757 The next position: [ -4.56858316 62.79105371 -
117.43614141 -21.84465021 -55.59671852
758 -65.75164489 -79.34237168 -49.32142257 -33.
85025081 22.88556803]
759 The next value: 1022.6966874390469
760 Adjusted Numbers: [-0.80330633 -0.65778475 0.
91577906 0.56633057 0.88375423 -0.86896874
761 0.87300186 0.66925134 -0.96342345 0.50028863]
762 The next position: [-32.65433614 30.91525461 -81.
66996803 -28.21208372 -52.98186688
763 -98.90366221 -45.29595131 -17.50898412 -39.90611158
17.76451727]
764 The next value: 997.65505410852
765 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
93911202 0.57855866 -0.79354799 -0.60421295
766 0.81719101 -0.9127717 -0.92444932 -0.73994286]
767 The next position: [ 2.94535503 63.97777865 -
118.74640859 -27.97029461 -86.50883313
768 -93.60820378 -46.41541224 -49.1306953 -39.

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768 12273714 -7.02530145]
769 The next value: 1056.3267828462554
770 Adjusted Numbers: [-0.96126608 0.85767107 -0.
57674377 -0.96890668 -0.51685368 -0.89327491
771 0.64823521 -0.70654285 0.67861107 0.89951672]
772 The next position: [ -35.80323955 61.2025443 -
111.50139197 -58.89379737 -80.97638864
773 -99.38134865 -49.79517692 -45.00571569 -7.
08676581 25.7371358 ]
774 The next value: 1059.6112035277479
775 Adjusted Numbers: [-0.79533114 -0.67188802 0.
88880032 -0.67164146 -0.90009308 0.57179281
776 0.82758929 0.52977822 0.88918951 0.67311008]
777 The next position: [-32.4839377 30.64258452 -82.
22155173 -52.95087404 -88.62999086
778 -70.10957 -46.21519772 -20.3044694 -2.88315687
21.21007401]
779 The next value: 987.3926524032304
780 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731 0.61478258 -0.70464633 -0.66929161
781 0.85501716 -0.80446828 0.50162421 0.95199597]
782 The next position: [ -16.37011608 16.16157258 -
96.63059734 -40.67218074 -102.70348032
783 -83.47694028 -29.13843941 -36.37164445 7.
13549039 40.22373344]
784 The next value: 1023.3744805225974
785 Adjusted Numbers: [ 0.76661218 0.74734441 0.
50188487 -0.80220332 -0.96014422 0.79177244
786 -0.64381762 0.92968009 0.826883 0.74339144]
787 The next position: [ -17.17636194 45.56542491 -
72.20000392 -68.96912723 -107.80197987
788 -54.29959876 -59.07083349 -1.74078257 13.
62789578 36.05398212]
789 The next value: 967.2244115996112
790 Adjusted Numbers: [-0.77050805 0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
791 0.80675904 0.64735897 -0.99425935 0.73428983]
792 The next position: [ -32.55819114 63.51193947 -
84.18144988 -55.85769269 -113.649387
793 -64.79918031 -42.96531751 11.18259326 -6.
22073184 50.71277854]
```

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794 The next value: 984.4896917453557
795 Adjusted Numbers: [-0.8467102  0.5541162  0.
    7718842 -0.78546048  0.8170703  0.74672023
796 -0.96835751  0.85887447  0.88179384  0.9946457 ]
797 The next position: [-34.0755443  56.62482968 -56.
    79424657 -84.64584867 -83.69238957
798 -39.39607992 -78.39793064  15.40118207  31.22729978
    55.90575567]
799 The next value: 1034.1013250610297
800 The best position: [-65.53189833 -72.57285007  86.
    51909261  39.3636323 -86.79996546
801 51.09261052  50.77523769  84.60490711  42.30495173
    -75.14580761]
802 The best value: 1046.5529872686086
803 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
    94338702 -0.50757786  0.7200559  0.57766213
804 0.60564396  0.68406178 -0.75165337 -0.94163264]
805 The next position: [-84.69256764 -91.4808671  67.
    69470304  29.23539943 -72.43193582
806 62.61930812  62.86028603  98.25470851  27.30642462
    -93.93519015]
807 The next value: 999.8277967198778
808 Adjusted Numbers: [ 0.67151854  0.9391915  0.
    62206044 -0.96270542  0.60126535 -0.53405145
809 0.61421039 -0.72427871  0.72708371  0.99424329]
810 The next position: [-71.29613657 -72.74450564  80.
    10447173  10.02994792 -60.43701797
811 51.96527102  75.11345053  83.80574066  41.81135065
    -74.10057533]
812 The next value: 1021.2953266560532
813 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
    88016462 -0.75731309 -0.91089624 -0.78501174
814 -0.54858132  0.92597796  0.61943396 -0.97488804]
815 The next position: [ -72.47672447 -105.98257346
    50.1399343  14.1308885 -90.59964276
816 46.96235116  51.91890299  116.72321835  39.
    66095437 -113.37920514]
817 The next value: 1029.3240428613526
818 Adjusted Numbers: [-0.85605144  0.93455266  0.
    63620092 -0.59341353 -0.99534851  0.98765171
819 -0.60914104  0.66271785  0.94003998  0.6936576 ]
```

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820 The next position: [-101.76247516 -72.84562309
80.38072916 17.40256602 -92.27946627
821 82.31336215 50.71384169 111.46948972 46.
0510873 -80.10346162]
822 The next value: 1093.0169819364755
823 Adjusted Numbers: [-0.52030448 -0.51246057 0.
73991144 0.6579618 -0.68641721 -0.9628476
824 -0.85995571 -0.52730978 0.71265892 0.63770287]
825 The next position: [ -95.06519971 -101.69712536
82.44535265 42.35232596 -86.11614079
826 43.42427098 45.71647021 87.74242098 41.
5137764 -81.22213939]
827 The next value: 1047.7758872879647
828 Adjusted Numbers: [-0.86527518 0.97723231 0.
65949044 -0.73971765 0.60189644 0.99066886
829 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
830 The next position: [-101.93846331 -72.0035415
80.83908016 14.49200476 -60.43547111
831 82.36443915 79.57184069 78.91832425 10.
01956754 -109.07947818]
832 The next value: 1068.9949385887064
833 Adjusted Numbers: [ 0.75943501 -0.57965198 0.
50551111 -0.86692704 -0.9793698 0.60950913
834 -0.61313143 0.77892176 0.54934062 0.84961594]
835 The next position: [ -69.55966546 -103.03131783
77.76778369 11.96055457 -91.94737447
836 74.7647081 50.64270605 113.77591389 38.
25287519 -77.00529531]
837 The next value: 1058.4277798745766
838 Adjusted Numbers: [-0.97340646 -0.86807782 0.
97013193 0.54435606 0.81563171 0.86394414
839 -0.97209685 -0.53127583 0.73355671 0.89803264]
840 The next position: [-104.08471633 -108.77466455
87.02161669 40.08003021 -56.18296689
841 79.83075463 43.49422722 87.67066137 41.
92030019 -76.0446344 ]
842 The next value: 1042.551042372545
843 Adjusted Numbers: [ 0.90035224 0.61330638 0.
8312127 0.78313242 -0.71998457 -0.52801867
844 0.70862097 0.59909584 0.85236285 0.83746687]
845 The next position: [-66.75992647 -79.26542218 84.

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```
845 25026701 44.83333104 -86.77212893
846 52.10256938 76.9741461 110.18711709 44.28324385
    -77.25505958]
847 The next value: 1032.9622739510985
848 Adjusted Numbers: [-0.71024877 0.92652506 -0.
    65208867 -0.74734096 -0.72984168 0.51132433
849 -0.95695039 0.89594042 0.65423094 -0.96996204]
850 The next position: [ -98.83559571 -73.03117684
    54.70980444 14.35376278 -86.9651132
851 72.80119739 43.80474281 116.09537365 40.
    33398189 -113.24983149]
852 The next value: 1051.866272982243
853 Function 4: Best Value among Trials = 855.7173
854 The best position: [ 9.76270079 43.03787327 20.
    55267521 8.9766366 -15.26904013
855 29.17882261 -12.48255775 78.35460016 92.7325521
    -23.31169623]
856 The best value: 16884.383936392558
857 Adjusted Numbers: [ 0.58345008 0.55778984 0.
    63608912 0.85119328 -0.85792788 -0.8257414
858 -0.95956321 0.66523969 0.5563135 0.7400243 ]
859 The next position: [ 21.43170231 54.19367006 33.
    27445766 26.00050213 -32.4275978
860 12.6639946 -31.67382185 91.65939398 103.85882214
    -8.5112103 ]
861 The next value: 14489.5992795402
862 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
    57704128 0.56105835 -0.76345115 0.77984204
863 -0.71329343 0.88933783 0.54369664 -0.67067612]
864 The next position: [ 40.57203271 66.15726037 21.
    73628654 37.21908831 -47.69310889
865 28.25724818 -45.9364092 109.44205971 110.87143187
    -21.9216476 ]
866 The next value: 15992.15327633949
867 Adjusted Numbers: [-0.97088878 0.54846738 -0.
    58769934 0.6368679 -0.9624204 0.73527099
868 0.72419145 0.73386799 0.88749616 0.8636406 ]
869 The next position: [ 2.02285794 65.15797232 21.
    52587716 38.73200157 -51.66715254
870 27.36265077 -17.19665474 106.33000304 117.74175911
    8.75365708]
```

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871 The next value: 21739.14019316783
872 Adjusted Numbers: [-0.7809842 -0.62593609 0.
89526239 -0.87954906 0.83353343 0.84127574
873 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
874 The next position: [ 5.82279344 41.68358415 51.
16735372 8.42165598 -15.7684293
875 29.47790245 -43.2505278 76.82668516 82.62912546
-23.95212034]
876 The next value: 18030.65306631881
877 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
97674768 -0.79591038 -0.58224649 -0.67738096
878 0.80621665 -0.99341679 -0.56737845 -0.51114882]
879 The next position: [ 34.22779395 41.74918611 52.
79144522 10.09693426 -44.06181792
880 -0.87116517 -15.5643181 71.80933064 88.66286708
-18.72478473]
881 The next value: 23940.98004103918
882 Adjusted Numbers: [-0.68206083 -0.77924972 0.
81265918 -0.7236341 -0.60683528 -0.76254966
883 0.64198646 -0.80579745 0.67588981 -0.80780318]
884 The next position: [ 7.80616584 38.62659021 49.
50895867 11.54445611 -44.55035254
885 -2.569468 -18.84885155 75.56196983 113.50225798
-24.64870306]
886 The next value: 11578.701990725802
887 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
95352218 0.70969104 0.97852716 -0.92162442
888 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
889 The next position: [ 26.838259 27.3881598 68.
55310011 25.71870069 -25.00680119
890 -20.97653409 -37.51079882 60.39078538 81.87064656
-39.87856017]
891 The next value: 15088.22359615001
892 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
87170501 0.88494424 0.63320291 -0.96922102
893 0.54649611 -0.81211898 0.65189299 0.8585924 ]
894 The next position: [ -9.44670429 25.21871654 32.
10290807 29.21486534 -31.90666945
895 -21.92270097 -7.93651445 59.34572245 113.01688335
-7.50448276]
896 The next value: 9922.048775300915
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897 Adjusted Numbers: [-0.8628621  0.83482076 -0.
                      73640428  0.93265441 -0.92118781 -0.63361728
898   0.67302587 -0.95978491  0.65788006 -0.99060905]
899 The next position: [-26.67221842  41.88443506  17.
                         40190043  47.83365944 -50.29655329
900   -34.57174813   5.49925552  40.18531597 113.13341066
                     -27.28023864]
901 The next value: 9174.986152063137
902 Adjusted Numbers: [ 0.85563307 -0.95998405  0.
                      97038804  0.92437709 -0.50249371  0.65231467
903   0.68408386  0.64450381 -0.55383673  0.90549802]
904 The next position: [ -9.59494758  22.72446078  36.
                         7695242   66.28296722 -60.32564344
905   -21.55243575  19.15263774  53.04873427 88.94617306
                     -9.20773132]
906 The next value: 11195.811676158946
907 The best position: [-10.57492428  69.28173449  39.
                         89585506 -40.51260983  62.75956394
908   -20.69885183  76.22063942  16.25457453 76.34707237
                     38.50631802]
909 The best value: 8920.915387379242
910 Adjusted Numbers: [ 0.95050856  0.50264876  0.
                      91216727  0.7879804  -0.6522899  0.71278643
911   -0.9616136  -0.89685037  0.82034707 -0.91984479]
912 The next position: [  8.39156875  79.31161184  58.
                         09728416 -24.78921147  49.74374018
913   -6.47587753  57.03255583  -1.64122036 92.71631694
                     20.1516914 ]
914 The next value: 10041.804957033772
915 Adjusted Numbers: [ 0.73603086 -0.6424626  -0.
                      72905187 -0.90343535  0.63992982  0.68174552
916   0.6486505   0.80640164  0.80420654 -0.63716313]
917 The next position: [  4.10849252  56.46495378  25.
                         35166526 -58.5356555  75.52581713
918   -7.09839806  89.16086538  32.34185029 92.39055708
                     25.79525884]
919 The next value: 22608.918151901278
920 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
                      62827015  0.78384671  0.61238798  0.90777717
921   -0.79954623  0.83896523  0.9284826   0.99769401]
922 The next position: [  5.24321615  54.0263771   27.

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922 36508875 -24.87888927 74.97356242
923 -2.59335445 60.27379408 32.98762673 94.8655369
      58.40519518]
924 The next value: 13715.494453025158
925 Adjusted Numbers: [-0.70110339 0.73625211 -0.
    67501413 0.73111913 -0.75236003 0.69601646
    0.61463792 0.63820148 -0.68563341 -0.86166601]
927 The next position: [-24.55512392 83.96280962 26.
    43588264 -25.9338879 47.75729235
928 -6.82008705 88.4766931 28.98049225 62.6753486
    21.32445441]
929 The next value: 22236.755794611177
930 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
    9441112 0.73276465 0.95104301 0.71160668
    -0.97657183 -0.78004387 0.95998112 -0.65674065]
932 The next position: [ 7.2646839 57.46156847 58.
    71736909 -25.90443635 81.71926845
933 -6.51247716 56.75200008 0.7038569 95.48496442
    25.41373603]
934 The next value: 24628.42025997855
935 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
    60000695 -0.96295641 0.58739541 -0.55215062
    -0.80929664 0.85616259 0.9088288 -0.93632214]
937 The next position: [ 0.22919708 51.51665647 27.
    93704995 -59.70540093 74.46700698
938 -31.70382719 60.0904583 33.31884606 94.46104012
    19.84437751]
939 The next value: 17478.01848933371
940 Adjusted Numbers: [-0.67061169 0.7429568 0.
    65445718 -0.52421436 0.868428 0.72793191
    0.57126561 0.67981995 0.96024406 -0.87611001]
942 The next position: [-23.93788605 84.08628316 52.
    93691356 -50.95838128 80.06431769
943 -6.19369706 87.60397884 29.80102505 95.48140137
    21.04848842]
944 The next value: 7711.378780217842
945 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
    62761399 0.88874478 0.97910159 -0.51908238
    -0.54517074 -0.99128704 -0.88394168 -0.63116675]
947 The next position: [-37.95412645 72.52533015 40.
    43362301 -33.25285779 99.56992447
```

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948 -16.53482708 76.74311796 10.0526605 77.87156498
     8.47441997]
949 The next value: 14591.754808409436
950 Adjusted Numbers: [-0.87640824 0.89268698 -0.
    74449632 -0.64079264 -0.95064254 -0.86550074
951 0.85878555 -0.59260631 0.57315842 0.79334259]
952 The next position: [-41.39362586 101.86625255 38.
    10851106 -63.72128015 61.13002634
953 -23.43218827 104.70872119 17.99787083 106.89720496
    36.84977964]
954 The next value: 9317.637809413638
955 Adjusted Numbers: [ 0.98067789 -0.56620603 0.
    82615641 -0.97335525 -0.958698 0.51675731
956 -0.8599657 -0.73307221 0.67663423 0.66209691]
957 The next position: [-4.40986221 72.81154664 69.
    38798489 -70.34059083 60.97397466
958 4.09637787 70.4796705 15.20351888 108.95507034
    34.23267899]
959 The next value: 16974.372183997555
960 The best position: [-16.59559906 44.06489869 -99.
    97712504 -39.53348547 -70.64882184
961 -81.53228105 -62.74795772 -30.88785459 -20.64650515
    7.7633468 ]
962 The best value: 19631.947276729574
963 Adjusted Numbers: [-0.66161097 0.870439 -0.
    5910955 0.75623487 -0.94522481 0.84093502
964 -0.6653904 0.61737966 -0.71922612 -0.60379702]
965 The next position: [-29.82781848 61.4736787 -
    111.79903505 -24.40878802 -89.55331811
966 -64.71358064 -76.05576563 -18.54026145 -35.
    03102761 -4.31259364]
967 The next value: 15254.06637892402
968 Adjusted Numbers: [ 0.60148914 0.93652315 -0.
    87315164 0.88464523 0.7527783 0.78921333
969 -0.82991158 -0.92189043 -0.66033916 0.75628501]
970 The next position: [-17.80080259 80.19983373 -
    117.45901638 -6.71995276 -74.5012148
971 -48.93294448 -92.65017958 -36.97382943 -48.
    23477327 10.80962759]
972 The next value: 17005.607694632832
973 Adjusted Numbers: [-0.80330633 -0.65778475 0.

```

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973 91577906 0.56633057 0.88375423 -0.86896874
974 0.87300186 0.66925134 -0.96342345 0.50028863]
975 The next position: [-45.88655556 48.32403463 -81.
69284299 -13.08738626 -71.88636315
976 -82.08496181 -58.60375922 -5.16139098 -54.
29063404 5.68857684]
977 The next value: 14203.585235768567
978 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
93911202 0.57855866 -0.79354799 -0.60421295
979 0.81719101 -0.9127717 -0.92444932 -0.73994286]
980 The next position: [ -26.34560147 68.23691459 -
100.46212654 -1.5241954 -87.74637445
981 -94.16088454 -42.27121373 -23.40423169 -72.
76686603 -9.10007142]
982 The next value: 13048.754173823561
983 Adjusted Numbers: [-0.96126608 0.85767107 -0.
57674377 -0.96890668 -0.51685368 -0.89327491
984 0.64823521 -0.70654285 0.67861107 0.89951672]
985 The next position: [ -45.55324196 85.37456021 -
111.52426694 -20.88450729 -98.07394125
986 -112.00995214 -29.31843293 -37.52209279 -59.
20712669 8.87371759]
987 The next value: 12427.439219275042
988 Adjusted Numbers: [-0.79533114 -0.67188802 0.
88880032 -0.67164146 -0.90009308 0.57179281
989 0.82758929 0.52977822 0.88918951 0.67311008]
990 The next position: [ -61.4415806 71.95224604 -
82.2444267 -34.30189586 -116.05511027
991 -88.57728895 -12.78567292 -26.93870761 -41.
4437784 22.32044479]
992 The next value: 21036.346177924446
993 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731 0.61478258 -0.70464633 -0.66929161
994 0.85501716 -0.80446828 0.50162421 0.95199597]
995 The next position: [ -29.43942033 70.89354827 -
114.40904561 -8.60581399 -112.14743071
996 -113.36737029 -12.24167462 -53.58926784 -49.
18847943 27.88737701]
997 The next value: 12787.76982335241
998 Adjusted Numbers: [ 0.76661218 0.74734441 0.
50188487 -0.80220332 -0.96014422 0.79177244
```

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999 -0.64381762 0.92968009 0.826883 0.74339144]
1000 The next position: [ -30.2456662 100.2974006 -
89.97845219 -36.90276048 -117.24593026
1001 -84.19002876 -42.17406871 -18.95840596 -42.
69607405 23.7176257 ]
1002 The next value: 27555.90560976083
1003 Adjusted Numbers: [-0.77050805 0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
1004 0.80675904 0.64735897 -0.99425935 0.73428983]
1005 The next position: [ -60.93507116 103.32107477 -
111.98144597 -7.77307274 -111.72332825
1006 -110.49958155 -13.21291695 -24.59871697 -79.
05575431 23.53251401]
1007 The next value: 13503.792004989848
1008 Adjusted Numbers: [-0.8467102 0.5541162 0.
7718842 -0.78546048 0.8170703 0.74672023
1009 -0.96835751 0.85887447 0.88179384 0.9946457 ]
1010 The next position: [-62.45242432 96.43396498 -84.
59424265 -36.56122872 -81.76633082
1011 -85.09648116 -48.64553008 -20.38012815 -41.
60772269 28.72549114]
1012 The next value: 17303.162220680348
1013 The best position: [-65.53189833 -72.57285007 86.
51909261 39.3636323 -86.79996546
1014 51.09261052 50.77523769 84.60490711 42.
30495173 -75.14580761]
1015 The best value: 27754.114294734925
1016 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
1017 0.60564396 0.68406178 -0.75165337 -0.94163264]
1018 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
1019 62.61930812 62.86028603 98.25470851 27.
30642462 -93.93519015]
1020 The next value: 29232.372180381975
1021 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
1022 0.61421039 -0.72427871 0.72708371 0.99424329]
1023 The next position: [-52.13546726 -53.83648862 98.
92886129 20.15818079 -74.80504761
1024 40.43857342 63.02840219 70.15593926 56.

```

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1024 80987775 -55.31119279]
1025 The next value: 20261.320648939472
1026 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
1027 -0.54858132 0.92597796 0.61943396 -0.97488804]
1028 The next position: [-39.91962409 -68.33819498 81.
37409255 5.05366986 -92.97275455
1029 24.78161646 52.08701914 88.6244491 69.1644075
-74.75520779]
1030 The next value: 23218.125988278833
1031 Adjusted Numbers: [-0.85605144 0.93455266 0.
63620092 -0.59341353 -0.99534851 0.98765171
1032 -0.60914104 0.66271785 0.94003998 0.6936576 ]
1033 The next position: [-69.20537478 -35.20124461 111.
61488741 8.32534737 -94.65257806
1034 60.13262745 50.88195784 83.37072047 75.
55454044 -41.47946426]
1035 The next value: 19030.85294460043
1036 Adjusted Numbers: [-0.52030448 -0.51246057 0.
73991144 0.6579618 -0.68641721 -0.9628476
1037 -0.85995571 -0.52730978 0.71265892 0.63770287]
1038 The next position: [-79.57800686 -45.41750287
114.75064961 21.4422739 -108.33678303
1039 40.93759031 33.73814202 72.85843293 89.
76189222 -28.7664135 ]
1040 The next value: 15920.230507960476
1041 Adjusted Numbers: [-0.86527518 0.97723231 0.
65949044 -0.73971765 0.60189644 0.99066886
1042 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
1043 The next position: [-96.82390252 -25.94017727 113.
14437712 6.69887923 -88.00353529
1044 60.68272133 50.44969667 53.52204867 72.
47503513 -43.91070153]
1045 The next value: 23204.400054248683
1046 Adjusted Numbers: [ 0.75943501 -0.57965198 0.
50551111 -0.86692704 -0.9793698 0.60950913
1047 -0.61313143 0.77892176 0.54934062 0.84961594]
1048 The next position: [-64.44510468 -56.9679536
110.07308064 4.16742904 -119.51543865
1049 53.08299028 21.52056204 88.37963831 100.
70834278 -11.83651867]
```

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1050 The next value: 22433.112731811023
1051 Adjusted Numbers: [-0.97340646 -0.86807782 0.
    97013193 0.54435606 0.81563171 0.86394414
1052 -0.97209685 -0.53127583 0.73355671 0.89803264]
1053 The next position: [-98.97015555 -62.71130032 119.
    32691364 32.28690468 -83.75103107
1054 58.14903681 14.3720832 62.27438579 104.
    37576779 -10.87585776]
1055 The next value: 20517.34854067233
1056 Adjusted Numbers: [0.90035224 0.61330638 0.
    8312127 0.78313242 -0.71998457 -0.52801867
1057 0.70862097 0.59909584 0.85236285 0.83746687]
1058 The next position: [-61.64536569 -33.20205795
    116.55556397 37.04020551 -114.34019312
1059 30.42085157 47.85200209 84.79084151 106.
    73871145 -12.08628294]
1060 The next value: 25665.334919691435
1061 Adjusted Numbers: [-0.71024877 0.92652506 -0.
    65208867 -0.74734096 -0.72984168 0.51132433
1062 -0.95695039 0.89594042 0.65423094 -0.96996204]
1063 The next position: [-93.72103493 -26.96781262
    87.0151014 6.56063725 -114.53317738
1064 51.11947957 14.68259879 90.69909807 102.
    78944949 -48.08105485]
1065 The next value: 21173.88751130982
1066 Function 5: Best Value among Trials = 2955.5672
1067 The best position: [9.76270079 43.03787327 20.
    55267521 8.9766366 -15.26904013
1068 29.17882261 -12.48255775 78.35460016 92.7325521
    -23.31169623]
1069 The best value: 29114250893.36984
1070 Adjusted Numbers: [0.58345008 0.55778984 0.
    63608912 0.85119328 -0.85792788 -0.8257414
1071 -0.95956321 0.66523969 0.5563135 0.7400243 ]
1072 The next position: [21.43170231 54.19367006 33.
    27445766 26.00050213 -32.4275978
1073 12.6639946 -31.67382185 91.65939398 103.
    85882214 -8.5112103 ]
1074 The next value: 29706856528.93561
1075 Adjusted Numbers: [0.95723668 0.59831713 -0.
    57704128 0.56105835 -0.76345115 0.77984204
```

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1076 -0.71329343 0.88933783 0.54369664 -0.67067612]
1077 The next position: [ 28.90303119 55.00146358 9.
    01450409 20.19522278 -30.53455122
1078 44.77207619 -26.7451451 96.13726588 103.
    60398397 -36.72213353]
1079 The next value: 31243051972.664032
1080 Adjusted Numbers: [-0.97088878 0.54846738 -0.
    58769934 0.6368679 -0.9624204 0.73527099
1081 0.72419145 0.73386799 0.88749616 0.8636406 ]
1082 The next position: [ -9.64614358 54.00217553 8.
    80409472 21.70813604 -34.50859487
1083 43.87747878 1.99460937 93.02520922 110.
    47431122 -6.04682885]
1084 The next value: 35547507252.543175
1085 Adjusted Numbers: [-0.7809842 -0.62593609 0.
    89526239 -0.87954906 0.83353343 0.84127574
1086 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
1087 The next position: [ -5.84620809 30.52778736 38.
    44557127 -8.60220955 1.39012837
1088 45.99273046 -24.0592637 63.52189134 75.
    36167756 -38.75260627]
1089 The next value: 21146682534.24069
1090 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
    97674768 -0.79591038 -0.58224649 -0.67738096
1091 0.80621665 -0.99341679 -0.56737845 -0.51114882]
1092 The next position: [ 6.94988355 18.08330341 57.
    96255884 -24.50577742 -10.24409175
1093 32.45757069 -7.94975995 43.67182801 64.
    02454463 -48.96618069]
1094 The next value: 19295517172.06254
1095 Adjusted Numbers: [-0.68206083 -0.77924972 0.
    81265918 -0.7236341 -0.60683528 -0.76254966
1096 0.64198646 -0.80579745 0.67588981 -0.80780318]
1097 The next position: [ -6.67565292 2.51622356 74.
    19705985 -38.96182344 -22.36684649
1098 17.22410809 4.87521034 27.57440386 77.
    52680262 -65.10367345]
1099 The next value: 24594472741.413708
1100 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
    95352218 0.70969104 0.97852716 -0.92162442
1101 -0.93438607 -0.75960688 -0.9077196 -0.76254456]

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1102 The next position: [ 25.98197671   6.844873   77.
    00670028 -10.33153284   9.2994596
1103   14.05050459 -26.61170722   28.50064355   45.
    89519119 -64.1960378 ]
1104 The next value: 14216438473.326553
1105 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
    87170501  0.88494424  0.63320291 -0.96922102
1106   0.54649611 -0.81211898  0.65189299  0.8585924 ]
1107 The next position: [ 8.72910658 -6.56300067  59.
    60064967  7.33887638  21.9431427
1108   -5.30272838 -15.69937012  12.28439618  58.
    91207454 -47.05181751]
1109 The next value: 19171460539.16896
1110 Adjusted Numbers: [-0.8628621  0.83482076 -0.
    73640428  0.93265441 -0.92118781 -0.63361728
1111   0.67302587 -0.95978491  0.65788006 -0.99060905]
1112 The next position: [ 8.75646258  23.51059151  62.
    30569265  8.28726125 -9.09042424
1113   1.40145743 -13.17593725  9.34023707  59.
    02860186 -83.97179367]
1114 The next value: 18823456506.94598
1115 Adjusted Numbers: [ 0.85563307 -0.95998405  0.
    97038804  0.92437709 -0.50249371  0.65231467
1116   0.68408386  0.64450381 -0.55383673  0.90549802]
1117 The next position: [ 43.05924754 -12.31510128  96.
    37432404  8.11777494 -0.72963054
1118   27.06981697 -12.958325  41.36406186  34.
    84136426 -46.12353049]
1119 The next value: 16408065462.553452
1120 The best position: [-10.57492428  69.28173449  39.
    89585506 -40.51260983  62.75956394
1121   -20.69885183  76.22063942  16.25457453  76.
    34707237  38.50631802]
1122 The best value: 38717374442.8774
1123 Adjusted Numbers: [ 0.95050856  0.50264876  0.
    91216727  0.7879804 -0.6522899  0.71278643
1124   -0.9616136 -0.89685037  0.82034707 -0.91984479]
1125 The next position: [ 8.39156875  79.31161184  58.
    09728416 -24.78921147  49.74374018
1126   -6.47587753  57.03255583 -1.64122036  92.
    71631694  20.1516914 ]

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1127 The next value: 40549152254.37713
1128 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
    72905187 -0.90343535 0.63992982 0.68174552
1129 0.6486505 0.80640164 0.80420654 -0.63716313]
1130 The next position: [ 4.10849252 56.46495378 25.
    35166526 -58.5356555 75.52581713
1131 -7.09839806 89.16086538 32.34185029 92.
    39055708 25.79525884]
1132 The next value: 44550536891.674324
1133 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
    62827015 0.78384671 0.61238798 0.90777717
1134 -0.79954623 0.83896523 0.9284826 0.99769401]
1135 The next position: [ 5.24321615 54.0263771 27.
    36508875 -24.87888927 74.97356242
1136 -2.59335445 60.27379408 32.98762673 94.8655369
    58.40519518]
1137 The next value: 41394566705.476036
1138 Adjusted Numbers: [-0.70110339 0.73625211 -0.
    67501413 0.73111913 -0.75236003 0.69601646
1139 0.61463792 0.63820148 -0.68563341 -0.86166601]
1140 The next position: [-24.55512392 83.96280962 26.
    43588264 -25.9338879 47.75729235
1141 -6.82008705 88.4766931 28.98049225 62.6753486
    21.32445441]
1142 The next value: 41939031141.574524
1143 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
    9441112 0.73276465 0.95104301 0.71160668
1144 -0.97657183 -0.78004387 0.95998112 -0.65674065]
1145 The next position: [ 7.2646839 57.46156847 58.
    71736909 -25.90443635 81.71926845
1146 -6.51247716 56.75200008 0.7038569 95.
    48496442 25.41373603]
1147 The next value: 39820765162.77408
1148 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
    60000695 -0.96295641 0.58739541 -0.55215062
1149 -0.80929664 0.85616259 0.9088288 -0.93632214]
1150 The next position: [ 0.22919708 51.51665647 27.
    93704995 -59.70540093 74.46700698
1151 -31.70382719 60.0904583 33.31884606 94.
    46104012 19.84437751]
1152 The next value: 38208623188.08427
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1153 Adjusted Numbers: [-0.67061169  0.7429568   0.
                         65445718 -0.52421436  0.868428    0.72793191
1154   0.57126561  0.67981995  0.96024406 -0.87611001]
1155 The next position: [-13.13376469  66.32120513  40.
                          97810845 -70.15117238  91.77176073
1156 -17.19867242  71.47379773  46.86529659 113.
                  59536912  2.38654792]
1157 The next value: 42091436148.70369
1158 Adjusted Numbers: [-0.70355788 -0.5803125   -0.
                         62761399  0.88874478  0.97910159 -0.51908238
1159 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
1160 The next position: [-13.78704332  39.95570346  15.
                          4337594 -41.99987744  93.97261376
1161 -42.04495721  49.22959742  13.57048151 76.
                  85120373  7.27030906]
1162 The next value: 31842105898.475117
1163 Adjusted Numbers: [-0.87640824  0.89268698 -0.
                         74449632 -0.64079264 -0.95064254 -0.86550074
1164  0.85878555 -0.59260631  0.57315842  0.79334259]
1165 The next position: [-31.24278314  57.73567286  0.
                          6053569 -54.7627763  75.0383224
1166 -59.28344842  66.33433976  1.76732729 88.
                  26700732  23.07160028]
1167 The next value: 39787552752.12486
1168 Adjusted Numbers: [ 0.98067789 -0.56620603  0.
                         82615641 -0.97335525 -0.958698    0.51675731
1169 -0.8599657 -0.73307221  0.67663423  0.66209691]
1170 The next position: [ 5.74098052  28.68096694  31.
                          88483072 -61.38208699  74.88227072
1171 -31.75488228  32.10528907 -1.02702466  90.3248727
                  20.45449963]
1172 The next value: 30674897924.416702
1173 The best position: [-16.59559906  44.06489869 -99.
                          97712504 -39.53348547 -70.64882184
1174 -81.53228105 -62.74795772 -30.88785459 -20.
                  64650515  7.7633468 ]
1175 The best value: 10578332520.410992
1176 Adjusted Numbers: [-0.66161097  0.870439   -0.
                         5910955  0.75623487 -0.94522481  0.84093502
1177 -0.6653904  0.61737966 -0.71922612 -0.60379702]
1178 The next position: [ -29.82781848  61.4736787  -

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1178 111.79903505 -24.40878802 -89.55331811
1179 -64.71358064 -76.05576563 -18.54026145 -35.
    03102761 -4.31259364]
1180 The next value: 12577013528.302773
1181 Adjusted Numbers: [ 0.60148914  0.93652315 -0.
    87315164  0.88464523  0.7527783  0.78921333
1182 -0.82991158 -0.92189043 -0.66033916  0.75628501]
1183 The next position: [ -4.56858316  62.79105371 -
    117.43614141 -21.84465021 -55.59671852
1184 -65.75164489 -79.34237168 -49.32142257 -33.
    85025081 22.88556803]
1185 The next value: 12974745214.230871
1186 Adjusted Numbers: [-0.80330633 -0.65778475  0.
    91577906  0.56633057  0.88375423 -0.86896874
1187 0.87300186  0.66925134 -0.96342345  0.50028863]
1188 The next position: [-32.65433614  30.91525461 -81.
    66996803 -28.21208372 -52.98186688
1189 -98.90366221 -45.29595131 -17.50898412 -39.
    90611158 17.76451727]
1190 The next value: 6627775234.483533
1191 Adjusted Numbers: [ 0.97772218  0.99633131 -0.
    93911202  0.57855866 -0.79354799 -0.60421295
1192 0.81719101 -0.9127717 -0.92444932 -0.73994286]
1193 The next position: [ -13.11338204  50.82813458 -
    100.43925158 -16.64889285 -68.84187818
1194 -110.97958494 -28.96340583 -35.75182483 -58.
    38234357 2.97586902]
1195 The next value: 12238126611.23054
1196 Adjusted Numbers: [-0.96126608  0.85767107 -0.
    57674377 -0.96890668 -0.51685368 -0.89327491
1197 0.64823521 -0.70654285  0.67861107  0.89951672]
1198 The next position: [ -51.86197663  48.05290023 -
    93.19423496 -47.57239561 -63.30943368
1199 -116.75272982 -32.3431705 -31.62684522 -26.
    34637224 35.73830627]
1200 The next value: 11092037224.816866
1201 Adjusted Numbers: [-0.79533114 -0.67188802  0.
    88880032 -0.67164146 -0.90009308  0.57179281
1202 0.82758929  0.52977822  0.88918951  0.67311008]
1203 The next position: [-48.54267478  17.49294044 -63.
    91439473 -41.62947229 -70.9630359
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1204 -87.48095116 -28.7631913 -6.92559893 -22.1427633
      31.21124448]
1205 The next value: 5621279299.713384
1206 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
    72144731 0.61478258 -0.70464633 -0.66929161
1207 0.85501716 -0.80446828 0.50162421 0.95199597]
1208 The next position: [ -32.42885316 3.0119285 -
    78.32344034 -29.35077898 -85.03652537
1209 -100.84832145 -11.68643299 -22.99277398 -12.
    12411604 50.22490391]
1210 The next value: 7784777207.255273
1211 Adjusted Numbers: [ 0.76661218 0.74734441 0.
    50188487 -0.80220332 -0.96014422 0.79177244
1212 -0.64381762 0.92968009 0.826883 0.74339144]
1213 The next position: [ -33.23509902 32.41578083 -53.
    89284691 -57.64772548 -90.13502491
1214 -71.67097992 -41.61882708 11.6380879 -5.
    63171065 46.05515259]
1215 The next value: 7206368467.339254
1216 Adjusted Numbers: [-0.77050805 0.89897852 -0.
    60017573 0.65677923 -0.68372639 -0.52594604
1217 0.80675904 0.64735897 -0.99425935 0.73428983]
1218 The next position: [ -63.92450398 35.439455 -75.
    89584069 -28.51803774 -84.61242291
1219 -97.98053271 -12.65767532 5.99777689 -41.
    99139091 45.8700409 ]
1220 The next value: 9001661965.587431
1221 Adjusted Numbers: [-0.8467102 0.5541162 0.
    7718842 -0.78546048 0.8170703 0.74672023
1222 -0.96835751 0.85887447 0.88179384 0.9946457 ]
1223 The next position: [ -65.44185714 28.55234522 -48.
    50863738 -57.30619372 -54.65542547
1224 -72.57743232 -48.09028845 10.21636571 -4.
    54335929 51.06301803]
1225 The next value: 6505606892.233659
1226 The best position: [ -65.53189833 -72.57285007 86.
    51909261 39.3636323 -86.79996546
1227 51.09261052 50.77523769 84.60490711 42.
    30495173 -75.14580761]
1228 The best value: 40352335603.066605
1229 Adjusted Numbers: [-0.96023973 -0.94757803 -0.

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1229 94338702 -0.50757786 0.7200559 0.57766213
1230 0.60564396 0.68406178 -0.75165337 -0.94163264]
1231 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
1232 62.61930812 62.86028603 98.25470851 27.
30642462 -93.93519015]
1233 The next value: 40911512794.74658
1234 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
1235 0.61421039 -0.72427871 0.72708371 0.99424329]
1236 The next position: [-52.13546726 -53.83648862 98.
92886129 20.15818079 -74.80504761
1237 40.43857342 63.02840219 70.15593926 56.
80987775 -55.31119279]
1238 The next value: 42554556965.43759
1239 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
1240 -0.54858132 0.92597796 0.61943396 -0.97488804]
1241 The next position: [-53.31605516 -87.07455644
68.96432386 24.25912137 -104.9676724
1242 35.43565356 39.83385465 103.07341695 54.
65948147 -94.5898226 ]
1243 The next value: 39467732285.04062
1244 Adjusted Numbers: [-0.85605144 0.93455266 0.
63620092 -0.59341353 -0.99534851 0.98765171
1245 -0.60914104 0.66271785 0.94003998 0.6936576 ]
1246 The next position: [-70.38596268 -68.43931243
81.65034998 12.42628795 -119.84753045
1247 55.12970759 27.6874103 113.21478121 73.
40414416 -80.75809407]
1248 The next value: 38426978819.84866
1249 Adjusted Numbers: [-0.52030448 -0.51246057 0.
73991144 0.6579618 -0.68641721 -0.9628476
1250 -0.85995571 -0.52730978 0.71265892 0.63770287]
1251 The next position: [-80.75859475 -78.65557069
96.40099959 25.54321449 -113.68420497
1252 35.93467044 10.54359448 89.48771247 87.
61149594 -68.04504331]
1253 The next value: 43314030231.23049
1254 Adjusted Numbers: [-0.86527518 0.97723231 0.
65949044 -0.73971765 0.60189644 0.99066886

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1255  0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
1256 The next position: [-87.63185835 -48.96198683  94.
    7947271   -2.31710672 -88.00353529
1257  74.87483861  44.39896495  80.66361574  56.
    11728707 -95.9023821 ]
1258 The next value: 34513241742.13435
1259 Adjusted Numbers: [ 0.75943501 -0.57965198  0.
    50551111 -0.86692704 -0.9793698  0.60950913
1260  -0.61313143  0.77892176  0.54934062  0.84961594]
1261 The next position: [-72.49895617 -60.51243756
    104.86780774 -19.59195158 -107.51897394
1262  87.02023859  32.18138497  96.18482112  67.
    06373764 -78.97248727]
1263 The next value: 35630310084.02176
1264 Adjusted Numbers: [-0.97340646 -0.86807782  0.
    97013193  0.54435606  0.81563171  0.86394414
1265  -0.97209685 -0.53127583  0.73355671  0.89803264]
1266 The next position: [-107.02400704 -66.25578428
    114.12164075  8.52752406 -71.75456637
1267  92.08628512  25.03290613  70.0795686  70.
    73116265 -78.01182636]
1268 The next value: 38232489438.15791
1269 Adjusted Numbers: [ 0.90035224  0.61330638  0.
    8312127   0.78313242 -0.71998457 -0.52801867
1270  0.70862097  0.59909584  0.85236285  0.83746687]
1271 The next position: [-69.69921718 -36.74654191
    111.35029107  13.28082489 -102.34372841
1272  64.35809988  58.51282502  92.59602432  73.
    0941063   -79.22225153]
1273 The next value: 42385178583.28717
1274 Adjusted Numbers: [-0.71024877  0.92652506 -0.
    65208867 -0.74734096 -0.72984168  0.51132433
1275  -0.95695039  0.89594042  0.65423094 -0.96996204]
1276 The next position: [-101.77488642 -30.51229657
    81.8098285  -17.19874337 -102.53671268
1277  85.05672788  25.34342172  98.50428088  69.
    14484434 -115.21702344]
1278 The next value: 29577067231.947014
1279 Function 6: Best Value among Trials = 1808.5430
1280 The best position: [ 9.76270079  43.03787327  20.
    55267521  8.9766366 -15.26904013
```

```
1281 29.17882261 -12.48255775 78.35460016 92.7325521
      -23.31169623]
1282 The best value: 2656.676014346861
1283 Adjusted Numbers: [ 0.58345008 0.55778984 0.
       63608912 0.85119328 -0.85792788 -0.8257414
1284 -0.95956321 0.66523969 0.5563135 0.7400243 ]
1285 The next position: [ 21.43170231 54.19367006 33.
       27445766 26.00050213 -32.4275978
1286 12.6639946 -31.67382185 91.65939398 103.
       85882214 -8.5112103 ]
1287 The next value: 3392.6466447342386
1288 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
       57704128 0.56105835 -0.76345115 0.77984204
1289 -0.71329343 0.88933783 0.54369664 -0.67067612]
1290 The next position: [ 28.90303119 55.00146358 9.
       01450409 20.19522278 -30.53455122
1291 44.77207619 -26.7451451 96.13726588 103.
       60398397 -36.72213353]
1292 The next value: 2840.389014074482
1293 Adjusted Numbers: [-0.97088878 0.54846738 -0.
       58769934 0.6368679 -0.9624204 0.73527099
1294 0.72419145 0.73386799 0.88749616 0.8636406 ]
1295 The next position: [ -9.64614358 54.00217553 8.
       80409472 21.70813604 -34.50859487
1296 43.87747878 1.99460937 93.02520922 110.
       47431122 -6.04682885]
1297 The next value: 3379.5547543610937
1298 Adjusted Numbers: [-0.7809842 -0.62593609 0.
       89526239 -0.87954906 0.83353343 0.84127574
1299 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
1300 The next position: [ -5.84620809 30.52778736 38.
       44557127 -8.60220955 1.39012837
1301 45.99273046 -24.0592637 63.52189134 75.
       36167756 -38.75260627]
1302 The next value: 2642.1296247924647
1303 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
       97674768 -0.79591038 -0.58224649 -0.67738096
1304 0.80621665 -0.99341679 -0.56737845 -0.51114882]
1305 The next position: [ 6.94988355 18.08330341 57.
       96255884 -24.50577742 -10.24409175
1306 32.45757069 -7.94975995 43.67182801 64.
```

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1306 02454463 -48.96618069]
1307 The next value: 2848.212814011351
1308 Adjusted Numbers: [-0.68206083 -0.77924972 0.
81265918 -0.7236341 -0.60683528 -0.76254966
1309 0.64198646 -0.80579745 0.67588981 -0.80780318]
1310 The next position: [-19.47174456 14.96070751 54.
68007229 -23.05825557 -10.73262637
1311 30.75926787 -11.23429341 47.42446719 88.
86393554 -54.89009902]
1312 The next value: 2623.3595095284845
1313 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
95352218 0.70969104 0.97852716 -0.92162442
1314 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
1315 The next position: [ -0.4396514 3.7222771 73.
72421373 -8.88401099 8.81092498
1316 12.35220177 -29.89624067 32.25328274 70.7345821
-70.11995613]
1317 The next value: 2544.2852127892115
1318 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
87170501 0.88494424 0.63320291 -0.96922102
1319 0.54649611 -0.81211898 0.65189299 0.8585924 ]
1320 The next position: [-17.69252153 -9.68559657 56.
31816312 8.78639823 21.45460808
1321 -7.0010312 -18.98390357 16.03703536 83.
75146545 -52.97573583]
1322 The next value: 2566.8303383576
1323 Adjusted Numbers: [-0.8628621 0.83482076 -0.
73640428 0.93265441 -0.92118781 -0.63361728
1324 0.67302587 -0.95978491 0.65788006 -0.99060905]
1325 The next position: [-17.66516553 20.38799561 59.
0232061 9.73478311 -9.57895887
1326 -0.2968454 -16.4604707 13.09287625 83.
86799276 -89.895712 ]
1327 The next value: 2370.5761480621904
1328 Adjusted Numbers: [ 0.85563307 -0.95998405 0.
97038804 0.92437709 -0.50249371 0.65231467
1329 0.68408386 0.64450381 -0.55383673 0.90549802]
1330 The next position: [ -0.58789469 1.22802133 78.
39082986 28.18409089 -19.60804902
1331 12.72246698 -2.80708848 25.95629456 72.
81416583 -71.82320469]
```

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1332 The next value: 2526.2178015542167
1333 The best position: [-10.57492428 69.28173449 39.
    89585506 -40.51260983 62.75956394
1334 -20.69885183 76.22063942 16.25457453 76.
    34707237 38.50631802]
1335 The best value: 2380.218637008371
1336 Adjusted Numbers: [ 0.95050856 0.50264876 0.
    91216727 0.7879804 -0.6522899 0.71278643
1337 -0.9616136 -0.89685037 0.82034707 -0.91984479]
1338 The next position: [ 8.39156875 79.31161184 58.
    09728416 -24.78921147 49.74374018
1339 -6.47587753 57.03255583 -1.64122036 92.
    71631694 20.1516914 ]
1340 The next value: 2905.633105561825
1341 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
    72905187 -0.90343535 0.63992982 0.68174552
1342 0.6486505 0.80640164 0.80420654 -0.63716313]
1343 The next position: [ 4.10849252 56.46495378 25.
    35166526 -58.5356555 75.52581713
1344 -7.09839806 89.16086538 32.34185029 92.
    39055708 25.79525884]
1345 The next value: 2376.215274898729
1346 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
    62827015 0.78384671 0.61238798 0.90777717
1347 -0.79954623 0.83896523 0.9284826 0.99769401]
1348 The next position: [ 19.92663295 41.20959638 12.
    82089895 -42.90193494 87.73981561
1349 11.00709932 73.21402004 49.0749025 110.
    90902161 45.694136 ]
1350 The next value: 2659.839276011634
1351 Adjusted Numbers: [-0.70110339 0.73625211 -0.
    67501413 0.73111913 -0.75236003 0.69601646
1352 0.61463792 0.63820148 -0.68563341 -0.86166601]
1353 The next position: [ -9.87170712 71.14602891 11.
    89169284 -43.95693357 60.52354554
1354 6.78036672 101.41691906 45.06776801 78.
    71883332 8.61339523]
1355 The next value: 3037.5513278941357
1356 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
    9441112 0.73276465 0.95104301 0.71160668
1357 -0.97657183 -0.78004387 0.95998112 -0.65674065]
```

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1358 The next position: [ 21.9481007  44.64478776  44.
    17317929 -43.92748202  94.48552164
1359   7.08797661  69.69222604  16.79113266 111.
    52844914  12.70267685]
1360 The next value: 2357.429664364163
1361 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
    60000695 -0.96295641  0.58739541 -0.55215062
1362 -0.80929664  0.85616259  0.9088288 -0.93632214]
1363 The next position: [ 32.75222205  26.87970973  32.
    21437418 -63.12027312 106.19296468
1364 -3.91699875  53.56204492  33.8554042  118.
    11396775 -5.95926365]
1365 The next value: 2825.903604064681
1366 Adjusted Numbers: [-0.67061169  0.7429568  0.
    65445718 -0.52421436  0.868428  0.72793191
1367 0.57126561  0.67981995  0.96024406 -0.87611001]
1368 The next position: [ 8.58513893  59.44933642  57.
    21423779 -54.37325347 111.7902754
1369 21.59313138  81.07556546  30.33758319 119.134329
    -4.75515274]
1370 The next value: 2687.5844614087373
1371 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
    62761399  0.88874478  0.97910159 -0.51908238
1372 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
1373 The next position: [ 7.9318603  33.08383475  31.
    66988874 -26.22195853 113.99112842
1374 -3.2531534  58.83136516 -2.95723189  82.
    39016361  0.1286084 ]
1375 The next value: 2955.267654683439
1376 Adjusted Numbers: [-0.87640824  0.89268698 -0.
    74449632 -0.64079264 -0.95064254 -0.86550074
1377 0.85878555 -0.59260631  0.57315842  0.79334259]
1378 The next position: [ 4.49236089  62.42475715  29.
    34477679 -56.69038089  75.55123028
1379 -10.1505146  86.79696838  4.98797844 111.
    41580359  28.50396807]
1380 The next value: 3389.6878204935197
1381 Adjusted Numbers: [ 0.98067789 -0.56620603  0.
    82615641 -0.97335525 -0.958698  0.51675731
1382 -0.8599657 -0.73307221  0.67663423  0.66209691]
1383 The next position: [ 41.47612454  33.37005124  60.

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1383 62425062 -63.30969157 75.39517861
1384 17.37805155 52.56791769 2.19362649 113.
    47366897 25.88686742]
1385 The next value: 3422.2765349375522
1386 The best position: [-16.59559906 44.06489869 -99.
    97712504 -39.53348547 -70.64882184
1387 -81.53228105 -62.74795772 -30.88785459 -20.
    64650515 7.7633468 ]
1388 The best value: 2694.2895599391823
1389 Adjusted Numbers: [-0.66161097 0.870439 -0.
    5910955 0.75623487 -0.94522481 0.84093502
1390 -0.6653904 0.61737966 -0.71922612 -0.60379702]
1391 The next position: [ -29.82781848 61.4736787 -
    111.79903505 -24.40878802 -89.55331811
1392 -64.71358064 -76.05576563 -18.54026145 -35.
    03102761 -4.31259364]
1393 The next value: 2741.9673311139168
1394 Adjusted Numbers: [ 0.60148914 0.93652315 -0.
    87315164 0.88464523 0.7527783 0.78921333
1395 -0.82991158 -0.92189043 -0.66033916 0.75628501]
1396 The next position: [ -4.56858316 62.79105371 -
    117.43614141 -21.84465021 -55.59671852
1397 -65.75164489 -79.34237168 -49.32142257 -33.
    85025081 22.88556803]
1398 The next value: 2973.7526848549537
1399 Adjusted Numbers: [-0.80330633 -0.65778475 0.
    91577906 0.56633057 0.88375423 -0.86896874
1400 0.87300186 0.66925134 -0.96342345 0.50028863]
1401 The next position: [-32.65433614 30.91525461 -81.
    66996803 -28.21208372 -52.98186688
1402 -98.90366221 -45.29595131 -17.50898412 -39.
    90611158 17.76451727]
1403 The next value: 2968.8958951971617
1404 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
    93911202 0.57855866 -0.79354799 -0.60421295
1405 0.81719101 -0.9127717 -0.92444932 -0.73994286]
1406 The next position: [ 2.94535503 63.97777865 -
    118.74640859 -27.97029461 -86.50883313
1407 -93.60820378 -46.41541224 -49.1306953 -39.
    12273714 -7.02530145]
1408 The next value: 2934.986961445743
```

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1409 Adjusted Numbers: [-0.96126608  0.85767107 -0.
      57674377 -0.96890668 -0.51685368 -0.89327491
1410  0.64823521 -0.70654285  0.67861107  0.89951672]
1411 The next position: [ -35.80323955   61.2025443  -
      111.50139197  -58.89379737  -80.97638864
1412  -99.38134865  -49.79517692  -45.00571569  -7.
      08676581   25.7371358 ]
1413 The next value: 2703.8911814880835
1414 Adjusted Numbers: [-0.79533114 -0.67188802  0.
      88880032 -0.67164146 -0.90009308  0.57179281
1415  0.82758929  0.52977822  0.88918951  0.67311008]
1416 The next position: [ -32.4839377   30.64258452  -82.
      22155173  -52.95087404  -88.62999086
1417  -70.10957   -46.21519772  -20.3044694  -2.
      88315687   21.21007401]
1418 The next value: 2719.6808716543646
1419 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
      72144731  0.61478258 -0.70464633 -0.66929161
1420  0.85501716 -0.80446828  0.50162421  0.95199597]
1421 The next position: [ -0.48177743   29.58388675  -
      114.38617065  -27.25479217  -84.7223113
1422  -94.89965133  -45.67119942  -46.95502964  -10.
      6278579   26.77700623]
1423 The next value: 2842.6304834958996
1424 Adjusted Numbers: [ 0.76661218  0.74734441  0.
      50188487 -0.80220332 -0.96014422  0.79177244
1425  -0.64381762  0.92968009  0.826883   0.74339144]
1426 The next position: [ -1.2880233   58.98773908  -89.
      95557722  -55.55173866  -89.82081085
1427  -65.72230981  -75.6035935  -12.32416776  -4.
      13545251   22.60725491]
1428 The next value: 2651.9176980436887
1429 Adjusted Numbers: [-0.77050805  0.89897852 -0.
      60017573  0.65677923 -0.68372639 -0.52594604
1430  0.80675904  0.64735897 -0.99425935  0.73428983]
1431 The next position: [ -16.6698525   76.93425364  -
      101.93702319  -42.44030412  -103.47019785
1432  -76.22189136  -59.49807752   0.59920807  -23.
      98408012   37.26605134]
1433 The next value: 3031.7799954001757
1434 Adjusted Numbers: [-0.8467102   0.5541162   0.

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1434 7718842 -0.78546048 0.8170703 0.74672023
1435 -0.96835751 0.85887447 0.88179384 0.9946457 ]
1436 The next position: [-18.18720566 70.04714385 -74.
54981987 -71.2284601 -73.51320042
1437 -50.81879097 -94.93069065 4.81779689 13.
46395149 42.45902846]
1438 The next value: 2969.096557920892
1439 The best position: [-65.53189833 -72.57285007 86.
51909261 39.3636323 -86.79996546
1440 51.09261052 50.77523769 84.60490711 42.
30495173 -75.14580761]
1441 The best value: 2656.0671250524156
1442 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
1443 0.60564396 0.68406178 -0.75165337 -0.94163264]
1444 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
1445 62.61930812 62.86028603 98.25470851 27.
30642462 -93.93519015]
1446 The next value: 2528.3200055538123
1447 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
1448 0.61421039 -0.72427871 0.72708371 0.99424329]
1449 The next position: [-71.29613657 -72.74450564 80.
10447173 10.02994792 -60.43701797
1450 51.96527102 75.11345053 83.80574066 41.
81135065 -74.10057533]
1451 The next value: 2563.467185636989
1452 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
1453 -0.54858132 0.92597796 0.61943396 -0.97488804]
1454 The next position: [ -72.47672447 -105.98257346
50.1399343 14.1308885 -90.59964276
1455 46.96235116 51.91890299 116.72321835 39.
66095437 -113.37920514]
1456 The next value: 2721.0189169683026
1457 Adjusted Numbers: [-0.85605144 0.93455266 0.
63620092 -0.59341353 -0.99534851 0.98765171
1458 -0.60914104 0.66271785 0.94003998 0.6936576 ]
1459 The next position: [-101.76247516 -72.84562309
80.38072916 17.40256602 -92.27946627

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1460	82.31336215	50.71384169	111.46948972	46.
	0510873	-80.10346162]		
1461	The next value:	2677.55435190646		
1462	Adjusted Numbers:	[-0.52030448	-0.51246057	0.
	73991144	0.6579618	-0.68641721	-0.9628476
1463	-0.85995571	-0.52730978	0.71265892	0.63770287]
1464	The next position:	[-95.06519971	-101.69712536	
	82.44535265	42.35232596	-86.11614079	
1465	43.42427098	45.71647021	87.74242098	41.
	5137764	-81.22213939]		
1466	The next value:	2908.6287867398246		
1467	Adjusted Numbers:	[-0.86527518	0.97723231	0.
	65949044	-0.73971765	0.60189644	0.99066886
1468	0.83846579	-0.97016088	-0.86733033	-0.7598316]
1469	The next position:	[-101.93846331	-72.0035415	
	80.83908016	14.49200476	-60.43547111	
1470	82.36443915	79.57184069	78.91832425	10.
	01956754	-109.07947818]		
1471	The next value:	2265.4211635857164		
1472	Adjusted Numbers:	[0.75943501	-0.57965198	0.
	50551111	-0.86692704	-0.9793698	0.60950913
1473	-0.61313143	0.77892176	0.54934062	0.84961594]
1474	The next position:	[-84.86709782	-83.55399223	90.
	91216081	-2.7828401	-79.95090976	
1475	94.50983913	67.3542607	94.43952963	20.9660181
	-83.07010517]			
1476	The next value:	2941.1643738643133		
1477	Adjusted Numbers:	[-0.97340646	-0.86807782	0.
	97013193	0.54435606	0.81563171	0.86394414
1478	-0.97209685	-0.53127583	0.73355671	0.89803264]
1479	The next position:	[-119.3921487	-89.29733895	
	100.16599381	25.33663554	-44.18650218	
1480	99.57588566	60.20578187	68.33427711	24.
	63344311	-82.10944426]		
1481	The next value:	2618.160451482548		
1482	Adjusted Numbers:	[0.90035224	0.61330638	0.
	8312127	0.78313242	-0.71998457	-0.52801867
1483	0.70862097	0.59909584	0.85236285	0.83746687]
1484	The next position:	[-82.06735883	-59.78809658	97.
	39464413	30.08993637	-74.77566423	
1485	71.84770041	93.68570075	90.85073283	26.

```
1485 99638677 -83.31986943]
1486 The next value: 3057.9738661622323
1487 Adjusted Numbers: [-0.71024877 0.92652506 -0.
65208867 -0.74734096 -0.72984168 0.51132433
1488 -0.95695039 0.89594042 0.65423094 -0.96996204]
1489 The next position: [-114.14302807 -53.55385124
67.85418156 -0.38963189 -74.96864849
1490 92.54632842 60.51629746 96.75898939 23.
04712481 -119.31464134]
1491 The next value: 2677.206773525506
1492 Function 7: Best Value among Trials = 2200.9053
1493 The best position: [ 9.76270079 43.03787327 20.
55267521 8.9766366 -15.26904013
1494 29.17882261 -12.48255775 78.35460016 92.7325521
-23.31169623]
1495 The best value: 518338.18059907155
1496 Adjusted Numbers: [ 0.58345008 0.55778984 0.
63608912 0.85119328 -0.85792788 -0.8257414
1497 -0.95956321 0.66523969 0.5563135 0.7400243 ]
1498 The next position: [ 21.43170231 54.19367006 33.
27445766 26.00050213 -32.4275978
1499 12.6639946 -31.67382185 91.65939398 103.
85882214 -8.5112103 ]
1500 The next value: 1146742.4678092613
1501 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
57704128 0.56105835 -0.76345115 0.77984204
1502 -0.71329343 0.88933783 0.54369664 -0.67067612]
1503 The next position: [ 28.90303119 55.00146358 9.
01450409 20.19522278 -30.53455122
1504 44.77207619 -26.7451451 96.13726588 103.
60398397 -36.72213353]
1505 The next value: 3116941.019592529
1506 Adjusted Numbers: [-0.97088878 0.54846738 -0.
58769934 0.6368679 -0.9624204 0.73527099
1507 0.72419145 0.73386799 0.88749616 0.8636406 ]
1508 The next position: [ -9.64614358 54.00217553 8.
80409472 21.70813604 -34.50859487
1509 43.87747878 1.99460937 93.02520922 110.
47431122 -6.04682885]
1510 The next value: 62203.684837983565
1511 Adjusted Numbers: [-0.7809842 -0.62593609 0.
```

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1511 89526239 -0.87954906 0.83353343 0.84127574
1512 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
1513 The next position: [-25.25505245 41.49208962 26.
69699077 4.12928989 -17.84942636
1514 60.69138663 -9.58209659 78.19250041 82.
62912546 -21.48773888]
1515 The next value: 392176.79990671197
1516 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
97674768 -0.79591038 -0.58224649 -0.67738096
1517 0.80621665 -0.99341679 -0.56737845 -0.51114882]
1518 The next position: [ 3.14994806 41.55769158 28.
32108228 5.80456817 -46.14281498
1519 30.34231901 18.10411312 73.17514589 88.
66286708 -16.26040328]
1520 The next value: 163542.09172372805
1521 Adjusted Numbers: [-0.68206083 -0.77924972 0.
81265918 -0.7236341 -0.60683528 -0.76254966
1522 0.64198646 -0.80579745 0.67588981 -0.80780318]
1523 The next position: [-23.27168005 38.43509568 25.
03859573 7.25209003 -46.63134961
1524 28.64401618 14.81957966 76.92778507 113.
50225798 -22.18432161]
1525 The next value: 450917.02403135656
1526 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
95352218 0.70969104 0.97852716 -0.92162442
1527 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
1528 The next position: [ 9.38594958 42.76374512 27.
84823616 35.88238062 -14.96504351
1529 25.47041268 -16.6673379 77.85402477 81.
87064656 -21.27668596]
1530 The next value: 444117.1205646835
1531 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
87170501 0.88494424 0.63320291 -0.96922102
1532 0.54649611 -0.81211898 0.65189299 0.8585924 ]
1533 The next position: [-26.89901371 40.59430186 -8.
60195589 39.37854527 -21.86491177
1534 24.52424581 12.90694647 76.80896185 113.
01688335 11.09739145]
1535 The next value: 35902.58158342376
1536 Adjusted Numbers: [-0.8628621 0.83482076 -0.
73640428 0.93265441 -0.92118781 -0.63361728
```

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1537  0.67302587 -0.95978491  0.65788006 -0.99060905]
1538 The next position: [-44.12452784  57.26002038 -23.
30296352  57.99733937 -40.25479561
1539  11.87519864  26.34271644  57.64855536 113.
13341066 -8.67836443]
1540 The next value: 38853.239071291595
1541 Adjusted Numbers: [ 0.85563307 -0.95998405  0.
97038804  0.92437709 -0.50249371  0.65231467
1542  0.68408386  0.64450381 -0.55383673  0.90549802]
1543 The next position: [ -9.82174288  21.43432759  10.
76566787  57.82785305 -31.89400192
1544  37.54355819  26.56032869  89.67238016  88.
94617306  29.16989876]
1545 The next value: 17652.783224689232
1546 The best position: [-10.57492428  69.28173449  39.
89585506 -40.51260983  62.75956394
1547  -20.69885183  76.22063942  16.25457453  76.
34707237  38.50631802]
1548 The best value: 2588.9818586513697
1549 Adjusted Numbers: [ 0.95050856  0.50264876  0.
91216727  0.7879804 -0.6522899  0.71278643
1550  -0.9616136 -0.89685037  0.82034707 -0.91984479]
1551 The next position: [ 8.39156875  79.31161184  58.
09728416 -24.78921147  49.74374018
1552  -6.47587753  57.03255583 -1.64122036  92.
71631694  20.1516914 ]
1553 The next value: 2510.809980169208
1554 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
72905187 -0.90343535  0.63992982  0.68174552
1555  0.6486505  0.80640164  0.80420654 -0.63716313]
1556 The next position: [ 23.07498555  66.49483113  43.
55309436 -42.81225713  62.50999337
1557  7.12457624  69.97278178  14.4460554  108.
75980165  7.44063222]
1558 The next value: 3750.1634375115013
1559 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
62827015  0.78384671  0.61238798  0.90777717
1560  -0.79954623  0.83896523  0.9284826  0.99769401]
1561 The next position: [ 24.20970918  64.05625445  45.
56651785 -9.15549091  61.95773866
1562  11.62961986  41.08571048  15.09183185 111.

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1562 23478146 40.05056856]
1563 The next value: 5206.552529947401
1564 Adjusted Numbers: [-0.70110339 0.73625211 -0.
67501413 0.73111913 -0.75236003 0.69601646
1565 0.61463792 0.63820148 -0.68563341 -0.86166601]
1566 The next position: [ -5.58863089 93.99268697 44.
63731173 -10.21048953 34.74146859
1567 7.40288725 69.28860951 11.08469736 79.
04459317 2.96982779]
1568 The next value: 7139.284208179681
1569 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
9441112 0.73276465 0.95104301 0.71160668
1570 -0.97657183 -0.78004387 0.95998112 -0.65674065]
1571 The next position: [ 26.23117692 67.49144582 76.
91879819 -10.18103799 68.70344469
1572 7.71049715 37.56391648 -17.19193799 111.
85420899 7.05910941]
1573 The next value: 3912.8574906674453
1574 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
60000695 -0.96295641 0.58739541 -0.55215062
1575 -0.80929664 0.85616259 0.9088288 -0.93632214]
1576 The next position: [ 19.1956901 61.54653382 46.
13847905 -43.98200256 61.45118322
1577 -17.48085289 40.90237471 15.42305117 110.
83028469 1.48975089]
1578 The next value: 5653.944012343708
1579 Adjusted Numbers: [-0.67061169 0.7429568 0.
65445718 -0.52421436 0.868428 0.72793191
1580 0.57126561 0.67981995 0.96024406 -0.87611001]
1581 The next position: [ -4.97139302 94.11616051 71.
13834266 -35.23498292 67.04849394
1582 8.02927724 68.41589525 11.90523016 111.
85064594 2.6938618 ]
1583 The next value: 7399.726806004259
1584 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
62761399 0.88874478 0.97910159 -0.51908238
1585 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
1586 The next position: [ -5.62467165 67.75065884 45.
59399361 -7.08368798 69.24934696
1587 -16.81700754 46.17169494 -21.38958492 75.
10648055 7.57762295]
```

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1588 The next value: 3239.158642444997
1589 Adjusted Numbers: [-0.87640824 0.89268698 -0.
    74449632 -0.64079264 -0.95064254 -0.86550074
1590 0.85878555 -0.59260631 0.57315842 0.79334259]
1591 The next position: [ -9.06417106 97.09158124 43.
    26888166 -37.55211033 30.80944882
1592 -23.71436874 74.13729817 -13.44437459 104.
    13212053 35.95298262]
1593 The next value: 2647.923098268272
1594 Adjusted Numbers: [ 0.98067789 -0.56620603 0.
    82615641 -0.97335525 -0.958698 0.51675731
1595 -0.8599657 -0.73307221 0.67663423 0.66209691]
1596 The next position: [ 27.91959259 68.03687532 74.
    54835549 -44.17142102 30.65339715
1597 3.81419741 39.90824748 -16.23872654 106.1899859
    33.33588197]
1598 The next value: 4963.687264132098
1599 The best position: [-16.59559906 44.06489869 -99.
    97712504 -39.53348547 -70.64882184
1600 -81.53228105 -62.74795772 -30.88785459 -20.
    64650515 7.7633468 ]
1601 The best value: 19531136.565197907
1602 Adjusted Numbers: [-0.66161097 0.870439 -0.
    5910955 0.75623487 -0.94522481 0.84093502
1603 -0.6653904 0.61737966 -0.71922612 -0.60379702]
1604 The next position: [ -29.82781848 61.4736787 -
    111.79903505 -24.40878802 -89.55331811
1605 -64.71358064 -76.05576563 -18.54026145 -35.
    03102761 -4.31259364]
1606 The next value: 28205203.178978983
1607 Adjusted Numbers: [ 0.60148914 0.93652315 -0.
    87315164 0.88464523 0.7527783 0.78921333
1608 -0.82991158 -0.92189043 -0.66033916 0.75628501]
1609 The next position: [ -4.56858316 62.79105371 -
    117.43614141 -21.84465021 -55.59671852
1610 -65.75164489 -79.34237168 -49.32142257 -33.
    85025081 22.88556803]
1611 The next value: 81827858.23091884
1612 Adjusted Numbers: [-0.80330633 -0.65778475 0.
    91577906 0.56633057 0.88375423 -0.86896874
1613 0.87300186 0.66925134 -0.96342345 0.50028863]
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1614 The next position: [-32.65433614 30.91525461 -81.
66996803 -28.21208372 -52.98186688
1615 -98.90366221 -45.29595131 -17.50898412 -39.
90611158 17.76451727]
1616 The next value: 9290212.742438594
1617 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
93911202 0.57855866 -0.79354799 -0.60421295
1618 0.81719101 -0.9127717 -0.92444932 -0.73994286]
1619 The next position: [ -13.11338204 50.82813458 -
100.43925158 -16.64889285 -68.84187818
1620 -110.97958494 -28.96340583 -35.75182483 -58.
38234357 2.97586902]
1621 The next value: 1506973.927721458
1622 Adjusted Numbers: [-0.96126608 0.85767107 -0.
57674377 -0.96890668 -0.51685368 -0.89327491
1623 0.64823521 -0.70654285 0.67861107 0.89951672]
1624 The next position: [ -32.32102253 67.96578019 -
111.52426694 -36.00920474 -79.16944498
1625 -117.84906761 -16.01062502 -49.86968593 -44.
82260423 20.94965802]
1626 The next value: 1146626.111971808
1627 Adjusted Numbers: [-0.79533114 -0.67188802 0.
88880032 -0.67164146 -0.90009308 0.57179281
1628 0.82758929 0.52977822 0.88918951 0.67311008]
1629 The next position: [-48.20936118 54.54346602 -82.
2444267 -49.42659331 -97.150614
1630 -88.57728895 0.52213499 -39.28630075 -27.
05925595 34.39638523]
1631 The next value: 482664.6076992302
1632 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731 0.61478258 -0.70464633 -0.66929161
1633 0.85501716 -0.80446828 0.50162421 0.95199597]
1634 The next position: [ -32.09553955 40.06245408 -
96.65347231 -37.14790001 -111.22410346
1635 -101.94465924 17.59889329 -55.35347579 -17.
04060869 53.41004466]
1636 The next value: 225321.3909497494
1637 Adjusted Numbers: [ 0.76661218 0.74734441 0.
50188487 -0.80220332 -0.96014422 0.79177244
1638 -0.64381762 0.92968009 0.826883 0.74339144]
1639 The next position: [ -16.78796379 54.98529447 -

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1639 86.63192449 -53.1661532 -119.17198901
1640 -84.19002876 4.74325752 -36.78978896 -0.
52955605 68.25395277]
1641 The next value: 1807750.5483943732
1642 Adjusted Numbers: [-0.77050805 0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
1643 0.80675904 0.64735897 -0.99425935 0.73428983]
1644 The next position: [ -47.47736875 58.00896864 -
108.63491827 -24.03646546 -113.649387
1645 -110.49958155 33.70440927 -42.43009997 -36.
88923631 68.06884108]
1646 The next value: 82676.17665383144
1647 Adjusted Numbers: [-0.8467102 0.5541162 0.
7718842 -0.78546048 0.8170703 0.74672023
1648 -0.96835751 0.85887447 0.88179384 0.9946457 ]
1649 The next position: [-64.37655111 69.06837341 -84.
59424265 -39.7131869 -83.69238957
1650 -85.09648116 14.37731212 -25.28813533 -19.2898323
87.92061463]
1651 The next value: 2387560.2958384086
1652 The best position: [-65.53189833 -72.57285007 86.
51909261 39.3636323 -86.79996546
1653 51.09261052 50.77523769 84.60490711 42.
30495173 -75.14580761]
1654 The best value: 163372258.16001832
1655 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
1656 0.60564396 0.68406178 -0.75165337 -0.94163264]
1657 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
1658 62.61930812 62.86028603 98.25470851 27.
30642462 -93.93519015]
1659 The next value: 609004624.0985019
1660 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
1661 0.61421039 -0.72427871 0.72708371 0.99424329]
1662 The next position: [-52.13546726 -53.83648862 98.
92886129 20.15818079 -74.80504761
1663 40.43857342 63.02840219 70.15593926 56.
80987775 -55.31119279]
1664 The next value: 32487001.857948937
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1665 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
1666 -0.54858132 0.92597796 0.61943396 -0.97488804]
1667 The next position: [-39.91962409 -68.33819498 81.
37409255 5.05366986 -92.97275455
1668 24.78161646 52.08701914 88.6244491 69.1644075
-74.75520779]
1669 The next value: 159049116.24698585
1670 Adjusted Numbers: [-0.85605144 0.93455266 0.
63620092 -0.59341353 -0.99534851 0.98765171
1671 -0.60914104 0.66271785 0.94003998 0.6936576 ]
1672 The next position: [-69.20537478 -35.20124461 111.
61488741 8.32534737 -94.65257806
1673 60.13262745 50.88195784 83.37072047 75.
55454044 -41.47946426]
1674 The next value: 7682454.690834689
1675 Adjusted Numbers: [-0.52030448 -0.51246057 0.
73991144 0.6579618 -0.68641721 -0.9628476
1676 -0.85995571 -0.52730978 0.71265892 0.63770287]
1677 The next position: [-79.57800686 -45.41750287
114.75064961 21.4422739 -108.33678303
1678 40.93759031 33.73814202 72.85843293 89.
76189222 -28.7664135 ]
1679 The next value: 1428982.940713175
1680 Adjusted Numbers: [-0.86527518 0.97723231 0.
65949044 -0.73971765 0.60189644 0.99066886
1681 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
1682 The next position: [-96.82390252 -25.94017727 113.
14437712 6.69887923 -88.00353529
1683 60.68272133 50.44969667 53.52204867 72.
47503513 -43.91070153]
1684 The next value: 10003279.639656382
1685 Adjusted Numbers: [ 0.75943501 -0.57965198 0.
50551111 -0.86692704 -0.9793698 0.60950913
1686 -0.61313143 0.77892176 0.54934062 0.84961594]
1687 The next position: [-64.44510468 -56.9679536
110.07308064 4.16742904 -119.51543865
1688 53.08299028 21.52056204 88.37963831 100.
70834278 -11.83651867]
1689 The next value: 71666.79923386473
1690 Adjusted Numbers: [-0.97340646 -0.86807782 0.

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1690 97013193 0.54435606 0.81563171 0.86394414
1691 -0.97209685 -0.53127583 0.73355671 0.89803264]
1692 The next position: [-83.83725337 -74.26175105 119.
32691364 15.01205981 -83.75103107
1693 70.29443679 2.15450322 77.79559117 114.
61387557 6.05403707]
1694 The next value: 93339.43910495973
1695 Adjusted Numbers: [ 0.90035224 0.61330638 0.
8312127 0.78313242 -0.71998457 -0.52801867
1696 0.70862097 0.59909584 0.85236285 0.83746687]
1697 The next position: [-46.51246351 -44.75250868
116.55556397 19.76536065 -114.34019312
1698 42.56625155 35.6344221 100.31204689 116.
97681923 4.8436119 ]
1699 The next value: 4285.604725760987
1700 Adjusted Numbers: [-0.71024877 0.92652506 -0.
65208867 -0.74734096 -0.72984168 0.51132433
1701 -0.95695039 0.89594042 0.65423094 -0.96996204]
1702 The next position: [-60.65549158 -26.30281843
87.0151014 4.88372399 -114.53317738
1703 52.74814081 16.57887887 117.84066514 113.
02755727 -14.47102945]
1704 The next value: 115569.29262276231
1705 Function 8: Best Value among Trials = 2483.3859
1706 The best position: [ 9.76270079 43.03787327 20.
55267521 8.9766366 -15.26904013
1707 29.17882261 -12.48255775 78.35460016 92.7325521
-23.31169623]
1708 The best value: 6774.751868199146
1709 Adjusted Numbers: [ 0.58345008 0.55778984 0.
63608912 0.85119328 -0.85792788 -0.8257414
1710 -0.95956321 0.66523969 0.5563135 0.7400243 ]
1711 The next position: [ 21.43170231 54.19367006 33.
27445766 26.00050213 -32.4275978
1712 12.6639946 -31.67382185 91.65939398 103.
85882214 -8.5112103 ]
1713 The next value: 5874.694633070216
1714 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
57704128 0.56105835 -0.76345115 0.77984204
1715 -0.71329343 0.88933783 0.54369664 -0.67067612]
1716 The next position: [ 40.57203271 66.15726037 21.

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1716 73628654 37.21908831 -47.69310889
1717 28.25724818 -45.9364092 109.44205971 110.
    87143187 -21.9216476 ]
1718 The next value: 6983.752158984355
1719 Adjusted Numbers: [-0.97088878 0.54846738 -0.
    58769934 0.6368679 -0.9624204 0.73527099
1720 0.72419145 0.73386799 0.88749616 0.8636406 ]
1721 The next position: [ 2.02285794 65.15797232 21.
    52587716 38.73200157 -51.66715254
1722 27.36265077 -17.19665474 106.33000304 117.
    74175911 8.75365708]
1723 The next value: 5412.1881528341655
1724 Adjusted Numbers: [-0.7809842 -0.62593609 0.
    89526239 -0.87954906 0.83353343 0.84127574
1725 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
1726 The next position: [-13.58605093 52.64788641 39.
    41877322 21.15315543 -35.00798404
1727 44.17655862 -28.77336069 85.16729118 82.
    62912546 -6.68725295]
1728 The next value: 5923.889538607548
1729 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
    97674768 -0.79591038 -0.58224649 -0.67738096
1730 0.80621665 -0.99341679 -0.56737845 -0.51114882]
1731 The next position: [ 14.81894958 52.71348837 41.
    04286472 22.8284337 -63.30137265
1732 13.82749099 -1.08715099 80.14993667 88.
    66286708 -1.45991735]
1733 The next value: 5868.6947198254875
1734 Adjusted Numbers: [-0.68206083 -0.77924972 0.
    81265918 -0.7236341 -0.60683528 -0.76254966
1735 0.64198646 -0.80579745 0.67588981 -0.80780318]
1736 The next position: [-11.60267853 49.59089247 37.
    76037817 24.27595556 -63.78990728
1737 12.12918817 -4.37168444 83.90257585 113.
    50225798 -7.38383568]
1738 The next value: 6481.312952132494
1739 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
    95352218 0.70969104 0.97852716 -0.92162442
1740 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
1741 The next position: [ 21.0549511 53.91954191 40.
    5700186 52.90624615 -32.12360119
```

1742	8.95558467	-35.858602	84.82881555	81.
	87064656	-6.47620003]		
1743	The next value:	5349.63375143293		
1744	Adjusted Numbers:	[-0.86403364	-0.67147401	-0.
	87170501	0.88494424	0.63320291	-0.96922102
1745	0.54649611	-0.81211898	0.65189299	0.8585924]
1746	The next position:	[3.80208097	40.51166825	23.
	163968	70.57665538	-19.47991809	
1747	-10.3976483	-24.9462649	68.61256817	94.
	88752991	10.66802027]		
1748	The next value:	4285.534352879762		
1749	Adjusted Numbers:	[-0.8628621	0.83482076	-0.
	73640428	0.93265441	-0.92118781	-0.63361728
1750	0.67302587	-0.95978491	0.65788006	-0.99060905]
1751	The next position:	[-13.42343316	57.17738676	8.
	46296037	89.19544947	-37.86980194	
1752	-23.04669547	-11.51049493	49.45216168	108.
	02094057	-9.10773561]		
1753	The next value:	5212.362276239943		
1754	Adjusted Numbers:	[0.85563307	-0.95998405	0.
	97038804	0.92437709	-0.50249371	0.65231467
1755	0.68408386	0.64450381	-0.55383673	0.90549802]
1756	The next position:	[20.8793518	21.35169397	42.
	53159176	89.02596316	-29.50900824	
1757	2.62166408	-11.29288268	81.47598648	83.
	83370297	28.74052758]		
1758	The next value:	3892.2013549331223		
1759	The best position:	[-10.57492428	69.28173449	39.
	89585506	-40.51260983	62.75956394	
1760	-20.69885183	76.22063942	16.25457453	76.
	34707237	38.50631802]		
1761	The best value:	4195.119727784192		
1762	Adjusted Numbers:	[0.95050856	0.50264876	0.
	91216727	0.7879804	-0.6522899	0.71278643
1763	-0.9616136	-0.89685037	0.82034707	-0.91984479]
1764	The next position:	[8.39156875	79.31161184	58.
	09728416	-24.78921147	49.74374018	
1765	-6.47587753	57.03255583	-1.64122036	92.
	71631694	20.1516914]		
1766	The next value:	5006.024341069823		
1767	Adjusted Numbers:	[0.73603086	-0.6424626	-0.

```

1767 72905187 -0.90343535 0.63992982 0.68174552
1768 0.6486505 0.80640164 0.80420654 -0.63716313]
1769 The next position: [ 4.10849252 56.46495378 25.
35166526 -58.5356555 75.52581713
1770 -7.09839806 89.16086538 32.34185029 92.
39055708 25.79525884]
1771 The next value: 5124.577881981599
1772 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
62827015 0.78384671 0.61238798 0.90777717
1773 -0.79954623 0.83896523 0.9284826 0.99769401]
1774 The next position: [ 5.24321615 54.0263771 27.
36508875 -24.87888927 74.97356242
1775 -2.59335445 60.27379408 32.98762673 94.8655369
58.40519518]
1776 The next value: 4271.77222581823
1777 Adjusted Numbers: [-0.70110339 0.73625211 -0.
67501413 0.73111913 -0.75236003 0.69601646
1778 0.61463792 0.63820148 -0.68563341 -0.86166601]
1779 The next position: [-24.55512392 83.96280962 26.
43588264 -25.9338879 47.75729235
1780 -6.82008705 88.4766931 28.98049225 62.6753486
21.32445441]
1781 The next value: 4595.21633882163
1782 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
9441112 0.73276465 0.95104301 0.71160668
1783 -0.97657183 -0.78004387 0.95998112 -0.65674065]
1784 The next position: [ 7.2646839 57.46156847 58.
71736909 -25.90443635 81.71926845
1785 -6.51247716 56.75200008 0.7038569 95.
48496442 25.41373603]
1786 The next value: 4876.931425884362
1787 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
60000695 -0.96295641 0.58739541 -0.55215062
1788 -0.80929664 0.85616259 0.9088288 -0.93632214]
1789 The next position: [ 0.22919708 51.51665647 27.
93704995 -59.70540093 74.46700698
1790 -31.70382719 60.0904583 33.31884606 94.
46104012 19.84437751]
1791 The next value: 5297.748461197215
1792 Adjusted Numbers: [-0.67061169 0.7429568 0.
65445718 -0.52421436 0.868428 0.72793191

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1793  0.57126561  0.67981995  0.96024406 -0.87611001]
1794 The next position: [-23.93788605  84.08628316  52.
93691356 -50.95838128  80.06431769
1795  -6.19369706  87.60397884  29.80102505  95.
48140137  21.04848842]
1796 The next value: 5514.884026368643
1797 Adjusted Numbers: [-0.70355788 -0.5803125  -0.
62761399  0.88874478  0.97910159 -0.51908238
1798  -0.54517074 -0.99128704 -0.88394168 -0.63116675]
1799 The next position: [-24.59116468  57.72078149  27.
39256451 -22.80708634  82.26517072
1800  -31.03998185  65.35977854 -3.49379003  58.
73723598  25.93224956]
1801 The next value: 4584.637720835122
1802 Adjusted Numbers: [-0.87640824  0.89268698 -0.
74449632 -0.64079264 -0.95064254 -0.86550074
1803  0.85878555 -0.59260631  0.57315842  0.79334259]
1804 The next position: [-28.03066409  87.06170389  25.
06745256 -53.2755087   43.82527258
1805  -37.93734304  93.32538176   4.4514203   87.
76287596  54.30760924]
1806 The next value: 4451.794258027215
1807 Adjusted Numbers: [ 0.98067789 -0.56620603  0.
82615641 -0.97335525 -0.958698   0.51675731
1808  -0.8599657  -0.73307221  0.67663423  0.66209691]
1809 The next position: [ 8.95309956  58.00699797  56.
34692639 -59.89481938  43.6692209
1810  -10.4087769  59.09633108   1.65706835  89.
82074134  51.69050858]
1811 The next value: 4318.9462948748505
1812 The best position: [-16.59559906  44.06489869 -99.
97712504 -39.53348547 -70.64882184
1813  -81.53228105 -62.74795772 -30.88785459 -20.
64650515  7.7633468 ]
1814 The best value: 4805.10353935959
1815 Adjusted Numbers: [-0.66161097  0.870439  -0.
5910955  0.75623487 -0.94522481  0.84093502
1816  -0.6653904  0.61737966 -0.71922612 -0.60379702]
1817 The next position: [ -29.82781848  61.4736787  -
111.79903505 -24.40878802 -89.55331811
1818  -64.71358064  -76.05576563  -18.54026145  -35.

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1818 03102761 -4.31259364]
1819 The next value: 5741.624838116807
1820 Adjusted Numbers: [ 0.60148914  0.93652315 -0.
87315164  0.88464523  0.7527783  0.78921333
1821 -0.82991158 -0.92189043 -0.66033916  0.75628501]
1822 The next position: [ -4.56858316  62.79105371 -
117.43614141 -21.84465021 -55.59671852
1823 -65.75164489 -79.34237168 -49.32142257 -33.
85025081  22.88556803]
1824 The next value: 4284.314837553796
1825 Adjusted Numbers: [-0.80330633 -0.65778475  0.
91577906  0.56633057  0.88375423 -0.86896874
1826  0.87300186  0.66925134 -0.96342345  0.50028863]
1827 The next position: [-20.62732024  49.64140963 -81.
69284299 -10.52324846 -37.92976357
1828 -83.12302605 -61.89036526 -35.94255209 -53.
10985724  32.8867385 ]
1829 The next value: 4163.764182409488
1830 Adjusted Numbers: [ 0.97772218  0.99633131 -0.
93911202  0.57855866 -0.79354799 -0.60421295
1831  0.81719101 -0.9127717 -0.92444932 -0.73994286]
1832 The next position: [ -1.08636615  69.5542896 -
100.46212654  1.03994241 -53.78977486
1833 -95.19894879 -45.55781978 -54.18539281 -71.
58608923  18.09809025]
1834 The next value: 4866.715017316991
1835 Adjusted Numbers: [-0.96126608  0.85767107 -0.
57674377 -0.96890668 -0.51685368 -0.89327491
1836  0.64823521 -0.70654285  0.67861107  0.89951672]
1837 The next position: [-39.83496073  66.77905525 -
93.21710993 -29.88356035 -48.25733037
1838 -100.97209366 -48.93758446 -50.06041319 -39.
5501179  50.8605275 ]
1839 The next value: 3957.498162628477
1840 Adjusted Numbers: [-0.79533114 -0.67188802  0.
88880032 -0.67164146 -0.90009308  0.57179281
1841  0.82758929  0.52977822  0.88918951  0.67311008]
1842 The next position: [-55.72329937  53.35674108 -75.
46153662 -43.30094892 -66.23849939
1843 -88.57728895 -32.40482445 -39.47702801 -21.
78676962  64.30725471]

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1844 The next value: 3685.912741672192
1845 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
    72144731 0.61478258 -0.70464633 -0.66929161
1846 0.85501716 -0.80446828 0.50162421 0.95199597]
1847 The next position: [ -39.60947775 38.87572914 -
    89.87058223 -31.02225562 -80.31198886
1848 -101.94465924 -15.32806614 -55.54420306 -11.
    76812236 83.32091414]
1849 The next value: 4005.7490030962736
1850 Adjusted Numbers: [ 0.76661218 0.74734441 0.
    50188487 -0.80220332 -0.96014422 0.79177244
1851 -0.64381762 0.92968009 0.826883 0.74339144]
1852 The next position: [-40.41572361 68.27958147 -65.
    43998881 -59.31920211 -85.4104884
1853 -72.76731771 -45.26046022 -20.91334117 -5.
    27571697 79.15116282]
1854 The next value: 3715.5320734372362
1855 Adjusted Numbers: [-0.77050805 0.89897852 -0.
    60017573 0.65677923 -0.68372639 -0.52594604
1856 0.80675904 0.64735897 -0.99425935 0.73428983]
1857 The next position: [-71.10512858 71.30325564 -87.
    44298259 -30.18951437 -79.8878864
1858 -99.0768705 -16.29930847 -26.55365218 -41.
    63539723 78.96605113]
1859 The next value: 4159.330811426351
1860 Adjusted Numbers: [-0.8467102 0.5541162 0.
    7718842 -0.78546048 0.8170703 0.74672023
1861 -0.96835751 0.85887447 0.88179384 0.9946457 ]
1862 The next position: [-72.62248173 64.41614585 -60.
    05577927 -58.97767036 -49.93088896
1863 -73.67377011 -51.7319216 -22.33506337 -4.
    18736561 84.15902826]
1864 The next value: 4317.671116010349
1865 The best position: [-65.53189833 -72.57285007 86.
    51909261 39.3636323 -86.79996546
1866 51.09261052 50.77523769 84.60490711 42.
    30495173 -75.14580761]
1867 The best value: 13466.43205304571
1868 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
    94338702 -0.50757786 0.7200559 0.57766213
1869 0.60564396 0.68406178 -0.75165337 -0.94163264]

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1870 The next position: [-84.69256764 -91.4808671 67.
                         69470304 29.23539943 -72.43193582
1871   62.61930812 62.86028603 98.25470851 27.
                         30642462 -93.93519015]
1872 The next value: 16013.912053905839
1873 Adjusted Numbers: [ 0.67151854 0.9391915 0.
                         62206044 -0.96270542 0.60126535 -0.53405145
1874   0.61421039 -0.72427871 0.72708371 0.99424329]
1875 The next position: [-52.13546726 -53.83648862 98.
                         92886129 20.15818079 -74.80504761
1876   40.43857342 63.02840219 70.15593926 56.
                         80987775 -55.31119279]
1877 The next value: 11448.330117752805
1878 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
                         88016462 -0.75731309 -0.91089624 -0.78501174
1879   -0.54858132 0.92597796 0.61943396 -0.97488804]
1880 The next position: [-39.91962409 -68.33819498 81.
                         37409255 5.05366986 -92.97275455
1881   24.78161646 52.08701914 88.6244491 69.1644075
                         -74.75520779]
1882 The next value: 14767.698320269368
1883 Adjusted Numbers: [-0.85605144 0.93455266 0.
                         63620092 -0.59341353 -0.99534851 0.98765171
1884   -0.60914104 0.66271785 0.94003998 0.6936576 ]
1885 The next position: [-69.20537478 -35.20124461 111.
                         61488741 8.32534737 -94.65257806
1886   60.13262745 50.88195784 83.37072047 75.
                         55454044 -41.47946426]
1887 The next value: 10910.0923724558
1888 Adjusted Numbers: [-0.52030448 -0.51246057 0.
                         73991144 0.6579618 -0.68641721 -0.9628476
1889   -0.85995571 -0.52730978 0.71265892 0.63770287]
1890 The next position: [-79.57800686 -45.41750287
                         114.75064961 21.4422739 -108.33678303
1891   40.93759031 33.73814202 72.85843293 89.
                         76189222 -28.7664135 ]
1892 The next value: 9192.00699703012
1893 Adjusted Numbers: [-0.86527518 0.97723231 0.
                         65949044 -0.73971765 0.60189644 0.99066886
1894   0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
1895 The next position: [-96.82390252 -25.94017727 113.

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1895 14437712 6.69887923 -88.00353529
1896 60.68272133 50.44969667 53.52204867 72.
    47503513 -43.91070153]
1897 The next value: 10986.771078989128
1898 Adjusted Numbers: [ 0.75943501 -0.57965198 0.
    50551111 -0.86692704 -0.9793698 0.60950913
1899 -0.61313143 0.77892176 0.54934062 0.84961594]
1900 The next position: [-64.44510468 -56.9679536
    110.07308064 4.16742904 -119.51543865
1901 53.08299028 21.52056204 88.37963831 100.
    70834278 -11.83651867]
1902 The next value: 7932.297806481195
1903 Adjusted Numbers: [-0.97340646 -0.86807782 0.
    97013193 0.54435606 0.81563171 0.86394414
1904 -0.97209685 -0.53127583 0.73355671 0.89803264]
1905 The next position: [-83.83725337 -74.26175105 119.
    32691364 15.01205981 -83.75103107
1906 70.29443679 2.15450322 77.79559117 114.
    61387557 6.05403707]
1907 The next value: 6223.734154191937
1908 Adjusted Numbers: [ 0.90035224 0.61330638 0.
    8312127 0.78313242 -0.71998457 -0.52801867
1909 0.70862097 0.59909584 0.85236285 0.83746687]
1910 The next position: [-65.90461221 -62.04630613 116.
    55556397 30.60999142 -98.09122419
1911 59.77769805 16.26836328 89.72799975 116.
    97681923 22.73416764]
1912 The next value: 5181.95849086477
1913 Adjusted Numbers: [-0.71024877 0.92652506 -0.
    65208867 -0.74734096 -0.72984168 0.51132433
1914 -0.95695039 0.89594042 0.65423094 -0.96996204]
1915 The next position: [-80.04764027 -43.59661588
    87.0151014 15.72835477 -112.62440157
1916 69.95958732 -2.78717994 107.56866489 113.
    02755727 3.4195263 ]
1917 The next value: 6604.079823383963
1918 Function 9: Best Value among Trials = 2529.2844
1919 The best position: [ 9.76270079 43.03787327 20.
    55267521 8.9766366 -15.26904013
1920 29.17882261 -12.48255775 78.35460016 92.7325521
    -23.31169623]

```

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1921 The best value: 5910.929705393539
1922 Adjusted Numbers: [ 0.58345008 0.55778984 0.
    63608912 0.85119328 -0.85792788 -0.8257414
1923 -0.95956321 0.66523969 0.5563135 0.7400243 ]
1924 The next position: [ 21.43170231 54.19367006 33.
    27445766 26.00050213 -32.4275978
1925 12.6639946 -31.67382185 91.65939398 103.
    85882214 -8.5112103 ]
1926 The next value: 6144.986182004277
1927 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
    57704128 0.56105835 -0.76345115 0.77984204
1928 -0.71329343 0.88933783 0.54369664 -0.67067612]
1929 The next position: [ 28.90303119 55.00146358 9.
    01450409 20.19522278 -30.53455122
1930 44.77207619 -26.7451451 96.13726588 103.
    60398397 -36.72213353]
1931 The next value: 6256.35630015018
1932 Adjusted Numbers: [-0.97088878 0.54846738 -0.
    58769934 0.6368679 -0.9624204 0.73527099
1933 0.72419145 0.73386799 0.88749616 0.8636406 ]
1934 The next position: [ -9.64614358 54.00217553 8.
    80409472 21.70813604 -34.50859487
1935 43.87747878 1.99460937 93.02520922 110.
    47431122 -6.04682885]
1936 The next value: 5682.673585769062
1937 Adjusted Numbers: [-0.7809842 -0.62593609 0.
    89526239 -0.87954906 0.83353343 0.84127574
1938 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
1939 The next position: [ -25.25505245 41.49208962 26.
    69699077 4.12928989 -17.84942636
1940 60.69138663 -9.58209659 78.19250041 82.
    62912546 -21.48773888]
1941 The next value: 7347.0161154530815
1942 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
    97674768 -0.79591038 -0.58224649 -0.67738096
1943 0.80621665 -0.99341679 -0.56737845 -0.51114882]
1944 The next position: [ 3.14994806 41.55769158 28.
    32108228 5.80456817 -46.14281498
1945 30.34231901 18.10411312 73.17514589 88.
    66286708 -16.26040328]
1946 The next value: 5469.262168656693

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1947 Adjusted Numbers: [-0.68206083 -0.77924972 0.
 81265918 -0.7236341 -0.60683528 -0.76254966
 1948 0.64198646 -0.80579745 0.67588981 -0.80780318]
 1949 The next position: [-10.47558841 25.99061173 44.
 55558329 -8.65147784 -58.26556972
 1950 15.10885641 30.92908341 57.07772174 102.
 16512506 -32.39789603]
 1951 The next value: 6490.447007961091
 1952 Adjusted Numbers: [0.95291893 -0.5626976 0.
 95352218 0.70969104 0.97852716 -0.92162442
 1953 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
 1954 The next position: [22.18204122 30.31926117 47.
 36522372 19.97881275 -26.59926363
 1955 11.93525291 -0.55783415 58.00396143 70.
 53351364 -31.49026039]
 1956 The next value: 5654.141342511792
 1957 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
 87170501 0.88494424 0.63320291 -0.96922102
 1958 0.54649611 -0.81211898 0.65189299 0.8585924]
 1959 The next position: [-14.10292207 28.14981791 10.
 91503167 23.4749774 -33.49913188
 1960 10.98908604 29.01645022 56.95889851 101.
 67975042 0.88381702]
 1961 The next value: 6047.029245885711
 1962 Adjusted Numbers: [-0.8628621 0.83482076 -0.
 73640428 0.93265441 -0.92118781 -0.63361728
 1963 0.67302587 -0.95978491 0.65788006 -0.99060905]
 1964 The next position: [-14.07556607 58.2234101 13.
 62007465 24.42336227 -64.53269883
 1965 17.69327184 31.53988308 54.0147394 101.
 79627774 -36.03615915]
 1966 The next value: 6161.556476298925
 1967 Adjusted Numbers: [0.85563307 -0.95998405 0.
 97038804 0.92437709 -0.50249371 0.65231467
 1968 0.68408386 0.64450381 -0.55383673 0.90549802]
 1969 The next position: [20.22721889 22.39771731 47.
 68870604 24.25387595 -56.17190513
 1970 43.36163139 31.75749534 86.0385642 77.
 60904014 1.81210404]
 1971 The next value: 5961.46788839961
 1972 The best position: [-10.57492428 69.28173449 39.

1972	89585506	-40.51260983	62.75956394	
1973	-20.69885183	76.22063942	16.25457453	76.
	34707237	38.50631802]		
1974	The best value:	5983.17298138056		
1975	Adjusted Numbers:	[0.95050856	0.50264876	0.
	91216727	0.7879804	-0.6522899	0.71278643
1976	-0.9616136	-0.89685037	0.82034707	-0.91984479]
1977	The next position:	[8.39156875	79.31161184	58.
	09728416	-24.78921147	49.74374018	
1978	-6.47587753	57.03255583	-1.64122036	92.
	71631694	20.1516914]		
1979	The next value:	6604.616739380068		
1980	Adjusted Numbers:	[0.73603086	-0.6424626	-0.
	72905187	-0.90343535	0.63992982	0.68174552
1981	0.6486505	0.80640164	0.80420654	-0.63716313]
1982	The next position:	[4.10849252	56.46495378	25.
	35166526	-58.5356555	75.52581713	
1983	-7.09839806	89.16086538	32.34185029	92.
	39055708	25.79525884]		
1984	The next value:	5267.598979413104		
1985	Adjusted Numbers:	[0.79309319	-0.76487626	-0.
	62827015	0.78384671	0.61238798	0.90777717
1986	-0.79954623	0.83896523	0.9284826	0.99769401]
1987	The next position:	[19.92663295	41.20959638	12.
	82089895	-42.90193494	87.73981561	
1988	11.00709932	73.21402004	49.0749025	110.
	90902161	45.694136]		
1989	The next value:	4959.468669053031		
1990	Adjusted Numbers:	[-0.70110339	0.73625211	-0.
	67501413	0.73111913	-0.75236003	0.69601646
1991	0.61463792	0.63820148	-0.68563341	-0.86166601]
1992	The next position:	[5.94643331	55.89067151	-0.
	63907348	-28.32321301	72.73754401	
1993	24.8858641	85.47007372	61.80082022	86.
	32827623	28.5122724]		
1994	The next value:	5030.025225670202		
1995	Adjusted Numbers:	[0.89485755	-0.59291463	0.
	9441112	0.73276465	0.95104301	0.71160668
1996	-0.97657183	-0.78004387	0.95998112	-0.65674065]
1997	The next position:	[37.76624113	29.38943036	31.
	64241298	-28.29376146	106.69952012	

1998	25.193474	53.74538069	33.52418487	119.
	13789205	32.60155402]		
1999	The next value:	6559.530279070998		
2000	Adjusted Numbers:	[0.54207321	-0.89132402	-0.
	60000695	-0.96295641	0.58739541	-0.55215062
2001	-0.80929664	0.85616259	0.9088288	-0.93632214]
2002	The next position:	[3.07307543e+01	2.34445184e+	
	01	8.62093836e-01	-6.20947260e+01	
2003	9.94472586e+01	2.12395912e-03	5.70838389e+01	6
	.61391740e+01			
2004	1.18113968e+02	2.70321955e+01]		
2005	The next value:	6980.091643076666		
2006	Adjusted Numbers:	[-0.67061169	0.7429568	0.
	65445718	-0.52421436	0.868428	0.72793191
2007	0.57126561	0.67981995	0.96024406	-0.87611001]
2008	The next position:	[6.56367118	56.01414505	25.
	86195745	-53.34770639	105.04456936	
2009	25.51225409	84.59735946	62.62135302	119.134329
	28.23630641]			
2010	The next value:	6378.24903510684		
2011	Adjusted Numbers:	[-0.70355788	-0.5803125	-0.
	62761399	0.88874478	0.97910159	-0.51908238
2012	-0.54517074	-0.99128704	-0.88394168	-0.63116675]
2013	The next position:	[5.91039255	29.64864338	0.
	3176084	-25.19641145	107.24542238	
2014	0.6659693	62.35315915	29.32653794	82.
	39016361	33.12006755]		
2015	The next value:	6653.406215314302		
2016	Adjusted Numbers:	[-0.87640824	0.89268698	-0.
	74449632	-0.64079264	-0.95064254	-0.86550074
2017	0.85878555	-0.59260631	0.57315842	0.79334259]
2018	The next position:	[2.47089314	58.98956578	-2.
	00750355	-55.66483381	68.80552425	
2019	-6.23139189	90.31876238	37.27174827	111.
	41580359	61.49542722]		
2020	The next value:	6056.345536454107		
2021	Adjusted Numbers:	[0.98067789	-0.56620603	0.
	82615641	-0.97335525	-0.958698	0.51675731
2022	-0.8599657	-0.73307221	0.67663423	0.66209691]
2023	The next position:	[39.45465679	29.93485986	29.
	27197027	-62.28414449	68.64947257	

2024	21.29717425	56.08971169	34.47739632	113.
	47366897	58.87832657]		
2025	The next value:	6710.950939277149		
2026	The best position:	[-16.59559906	44.06489869	-99.
	97712504	-39.53348547	-70.64882184	
2027	-81.53228105	-62.74795772	-30.88785459	-20.
	64650515	7.7633468]		
2028	The best value:	6250.688787522826		
2029	Adjusted Numbers:	[-0.66161097	0.870439	-0.
	5910955	0.75623487	-0.94522481	0.84093502
2030	-0.6653904	0.61737966	-0.71922612	-0.60379702]
2031	The next position:	[-29.82781848	61.4736787	-
	111.79903505	-24.40878802	-89.55331811	
2032	-64.71358064	-76.05576563	-18.54026145	-35.
	03102761	-4.31259364]		
2033	The next value:	7173.503359816998		
2034	Adjusted Numbers:	[0.60148914	0.93652315	-0.
	87315164	0.88464523	0.7527783	0.78921333
2035	-0.82991158	-0.92189043	-0.66033916	0.75628501]
2036	The next position:	[-4.56858316	62.79105371	-
	117.43614141	-21.84465021	-55.59671852	
2037	-65.75164489	-79.34237168	-49.32142257	-33.
	85025081	22.88556803]		
2038	The next value:	6952.461395340697		
2039	Adjusted Numbers:	[-0.80330633	-0.65778475	0.
	91577906	0.56633057	0.88375423	-0.86896874
2040	0.87300186	0.66925134	-0.96342345	0.50028863]
2041	The next position:	[-32.65433614	30.91525461	-81.
	66996803	-28.21208372	-52.98186688	
2042	-98.90366221	-45.29595131	-17.50898412	-39.
	90611158	17.76451727]		
2043	The next value:	6423.718344597832		
2044	Adjusted Numbers:	[0.97772218	0.99633131	-0.
	93911202	0.57855866	-0.79354799	-0.60421295
2045	0.81719101	-0.9127717	-0.92444932	-0.73994286]
2046	The next position:	[2.94535503	63.97777865	-
	118.74640859	-27.97029461	-86.50883313	
2047	-93.60820378	-46.41541224	-49.1306953	-39.
	12273714	-7.02530145]		
2048	The next value:	6364.003259520969		
2049	Adjusted Numbers:	[-0.96126608	0.85767107	-0.

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2049 57674377 -0.96890668 -0.51685368 -0.89327491
2050 0.64823521 -0.70654285 0.67861107 0.89951672]
2051 The next position: [ -35.80323955 61.2025443 -
111.50139197 -58.89379737 -80.97638864
2052 -99.38134865 -49.79517692 -45.00571569 -7.
08676581 25.7371358 ]
2053 The next value: 6201.037344144253
2054 Adjusted Numbers: [-0.79533114 -0.67188802 0.
88880032 -0.67164146 -0.90009308 0.57179281
2055 0.82758929 0.52977822 0.88918951 0.67311008]
2056 The next position: [-51.69157819 47.78023013 -82.
2444267 -72.31118594 -98.95755766
2057 -87.9586376 -33.26241691 -34.4223305 10.
67658247 39.18386301]
2058 The next value: 6593.2729356671325
2059 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
72144731 0.61478258 -0.70464633 -0.66929161
2060 0.85501716 -0.80446828 0.50162421 0.95199597]
2061 The next position: [-19.68941792 46.72153236 -
114.40904561 -46.61510406 -95.0498781
2062 -112.74871894 -32.71841861 -61.07289074 2.
93188144 44.75079523]
2063 The next value: 6853.212651034149
2064 Adjusted Numbers: [ 0.76661218 0.74734441 0.
50188487 -0.80220332 -0.96014422 0.79177244
2065 -0.64381762 0.92968009 0.826883 0.74339144]
2066 The next position: [-20.49566379 76.12538469 -
89.97845219 -74.91205056 -100.14837765
2067 -83.57137741 -62.65081269 -26.44202886 9.
42428683 40.58104392]
2068 The next value: 6147.832923146875
2069 Adjusted Numbers: [-0.77050805 0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
2070 0.80675904 0.64735897 -0.99425935 0.73428983]
2071 The next position: [-35.87749299 94.07189925 -
101.95989815 -61.80061601 -113.649387
2072 -94.07095896 -46.54529672 -13.51865303 -10.
42434078 55.23984034]
2073 The next value: 6528.105018275159
2074 Adjusted Numbers: [-0.8467102 0.5541162 0.
7718842 -0.78546048 0.8170703 0.74672023

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2075 -0.96835751 0.85887447 0.88179384 0.9946457 ]
2076 The next position: [-37.39484615 87.18478947 -74.
57269483 -90.58877199 -83.69238957
2077 -68.66785857 -81.97790984 -9.30006421 27.
02369083 60.43281747]
2078 The next value: 8183.982739398344
2079 The best position: [-65.53189833 -72.57285007 86.
51909261 39.3636323 -86.79996546
2080 51.09261052 50.77523769 84.60490711 42.
30495173 -75.14580761]
2081 The best value: 6958.658768603476
2082 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
2083 0.60564396 0.68406178 -0.75165337 -0.94163264]
2084 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
2085 62.61930812 62.86028603 98.25470851 27.
30642462 -93.93519015]
2086 The next value: 6943.407512125125
2087 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
2088 0.61421039 -0.72427871 0.72708371 0.99424329]
2089 The next position: [-71.29613657 -72.74450564 80.
10447173 10.02994792 -60.43701797
2090 51.96527102 75.11345053 83.80574066 41.
81135065 -74.10057533]
2091 The next value: 6126.448477998902
2092 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
2093 -0.54858132 0.92597796 0.61943396 -0.97488804]
2094 The next position: [-59.0802934 -87.246212 62.
54970298 -5.07456301 -78.60472492
2095 36.30831406 64.17206749 102.2742505 54.1658804
-93.54459033]
2096 The next value: 6855.434788437986
2097 Adjusted Numbers: [-0.85605144 0.93455266 0.
63620092 -0.59341353 -0.99534851 0.98765171
2098 -0.60914104 0.66271785 0.94003998 0.6936576 ]
2099 The next position: [-88.36604409 -54.10926163 92.
79049785 -1.80288549 -80.28454842
2100 71.65932505 62.96700618 97.02052187 60.

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2100 55601333 -60.2688468 ]
2101 The next value: 6751.0880695282995
2102 Adjusted Numbers: [-0.52030448 -0.51246057 0.
    73991144 0.6579618 -0.68641721 -0.9628476
2103 -0.85995571 -0.52730978 0.71265892 0.63770287]
2104 The next position: [-81.66876864 -82.9607639 94.
    85512134 23.14687445 -74.12122295
2105 32.77023388 57.96963471 73.29345312 56.
    01870243 -61.38752457]
2106 The next value: 5459.167412422733
2107 Adjusted Numbers: [-0.86527518 0.97723231 0.
    65949044 -0.73971765 0.60189644 0.99066886
2108 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
2109 The next position: [-98.91466431 -63.4834383 107.
    99949846 8.40347978 -62.12475824
2110 52.51536491 74.68118936 53.95706886 38.
    73184534 -76.5318126 ]
2111 The next value: 5149.776816998214
2112 Adjusted Numbers: [ 0.75943501 -0.57965198 0.
    50551111 -0.86692704 -0.9793698 0.60950913
2113 -0.61313143 0.77892176 0.54934062 0.84961594]
2114 The next position: [-83.78176213 -75.03388903 110.
    07308064 -8.87136508 -81.64019688
2115 64.66076489 62.46360938 69.47827424 49.
    67829591 -59.60191777]
2116 The next value: 7121.72129133607
2117 Adjusted Numbers: [-0.97340646 -0.86807782 0.
    97013193 0.54435606 0.81563171 0.86394414
2118 -0.97209685 -0.53127583 0.73355671 0.89803264]
2119 The next position: [-118.30681301 -80.77723575
    119.32691364 19.24811056 -45.87578931
2120 69.72681141 55.31513054 43.37302172 53.
    34572092 -58.64125686]
2121 The next value: 6251.12582601897
2122 Adjusted Numbers: [ 0.90035224 0.61330638 0.
    8312127 0.78313242 -0.71998457 -0.52801867
2123 0.70862097 0.59909584 0.85236285 0.83746687]
2124 The next position: [-80.98202314 -51.26799338 116.
    55556397 24.00141139 -76.46495135
2125 41.99862617 88.79504943 65.88947745 55.
    70866457 -59.85168204]
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2126 The next value: 5783.067545714763
2127 Adjusted Numbers: [-0.71024877  0.92652506 -0.
                         65208867 -0.74734096 -0.72984168  0.51132433
2128 -0.95695039  0.89594042  0.65423094 -0.96996204]
2129 The next position: [-113.05769238 -45.03374805
                          87.0151014   -6.47815687 -76.65793562
2130 62.69725418  55.62564613  71.797734      51.
                  75940261   -95.84645395]
2131 The next value: 6899.917712542741
2132 Function 10: Best Value among Trials = 3328.6310
2133 The best position: [ 9.76270079  43.03787327  20.
                          55267521   8.9766366  -15.26904013
2134 29.17882261 -12.48255775  78.35460016  92.7325521
                  -23.31169623]
2135 The best value: 9372.528781884866
2136 Adjusted Numbers: [ 0.58345008  0.55778984  0.
                          63608912   0.85119328 -0.85792788 -0.8257414
2137 -0.95956321  0.66523969  0.5563135   0.7400243 ]
2138 The next position: [ 21.43170231  54.19367006  33.
                          27445766   26.00050213 -32.4275978
2139 12.6639946  -31.67382185  91.65939398 103.
                  85882214   -8.5112103 ]
2140 The next value: 10391.587826651543
2141 Adjusted Numbers: [ 0.95723668  0.59831713 -0.
                          57704128   0.56105835 -0.76345115  0.77984204
2142 -0.71329343  0.88933783  0.54369664 -0.67067612]
2143 The next position: [ 28.90303119  55.00146358  9.
                          01450409   20.19522278 -30.53455122
2144 44.77207619 -26.7451451   96.13726588 103.
                  60398397   -36.72213353]
2145 The next value: 10295.30610484567
2146 Adjusted Numbers: [-0.97088878  0.54846738 -0.
                          58769934   0.6368679  -0.9624204   0.73527099
2147 0.72419145  0.73386799  0.88749616  0.8636406 ]
2148 The next position: [ -9.64614358  54.00217553  8.
                          80409472   21.70813604 -34.50859487
2149 43.87747878  1.99460937  93.02520922 110.
                  47431122   -6.04682885]
2150 The next value: 12133.763659279557
2151 Adjusted Numbers: [-0.7809842  -0.62593609  0.
                          89526239   -0.87954906  0.83353343  0.84127574
```

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2152 -0.57923488 -0.7421474 -0.8691433 -0.77257846]
2153 The next position: [ -5.84620809 30.52778736 38.
    44557127 -8.60220955 1.39012837
2154 45.99273046 -24.0592637 63.52189134 75.
    36167756 -38.75260627]
2155 The next value: 7439.090734804634
2156 Adjusted Numbers: [ 0.64039354 -0.62279697 0.
    97674768 -0.79591038 -0.58224649 -0.67738096
2157 0.80621665 -0.99341679 -0.56737845 -0.51114882]
2158 The next position: [ 6.94988355 18.08330341 57.
    96255884 -24.50577742 -10.24409175
2159 32.45757069 -7.94975995 43.67182801 64.
    02454463 -48.96618069]
2160 The next value: 7127.29421764288
2161 Adjusted Numbers: [-0.68206083 -0.77924972 0.
    81265918 -0.7236341 -0.60683528 -0.76254966
2162 0.64198646 -0.80579745 0.67588981 -0.80780318]
2163 The next position: [ -6.67565292 2.51622356 74.
    19705985 -38.96182344 -22.36684649
2164 17.22410809 4.87521034 27.57440386 77.
    52680262 -65.10367345]
2165 The next value: 9267.610945483011
2166 Adjusted Numbers: [ 0.95291893 -0.5626976 0.
    95352218 0.70969104 0.97852716 -0.92162442
2167 -0.93438607 -0.75960688 -0.9077196 -0.76254456]
2168 The next position: [ 25.98197671 6.844873 77.
    00670028 -10.33153284 9.2994596
2169 14.05050459 -26.61170722 28.50064355 45.
    89519119 -64.1960378 ]
2170 The next value: 6286.788842976115
2171 Adjusted Numbers: [-0.86403364 -0.67147401 -0.
    87170501 0.88494424 0.63320291 -0.96922102
2172 0.54649611 -0.81211898 0.65189299 0.8585924 ]
2173 The next position: [ 8.72910658 -6.56300067 59.
    60064967 7.33887638 21.9431427
2174 -5.30272838 -15.69937012 12.28439618 58.
    91207454 -47.05181751]
2175 The next value: 6646.962431038031
2176 Adjusted Numbers: [-0.8628621 0.83482076 -0.
    73640428 0.93265441 -0.92118781 -0.63361728
2177 0.67302587 -0.95978491 0.65788006 -0.99060905]

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2178 The next position: [ 8.75646258 23.51059151 62.
    30569265 8.28726125 -9.09042424
2179   1.40145743 -13.17593725 9.34023707 59.
    02860186 -83.97179367]
2180 The next value: 6283.244497459975
2181 Adjusted Numbers: [ 0.85563307 -0.95998405 0.
    97038804 0.92437709 -0.50249371 0.65231467
2182   0.68408386 0.64450381 -0.55383673 0.90549802]
2183 The next position: [ 25.83373342 4.35061724 81.
    67331641 26.73656904 -19.11951439
2184   14.42076981 0.47744497 22.20365537 47.
    97477492 -65.89928636]
2185 The next value: 6284.095846366805
2186 The best position: [-10.57492428 69.28173449 39.
    89585506 -40.51260983 62.75956394
2187   -20.69885183 76.22063942 16.25457453 76.
    34707237 38.50631802]
2188 The best value: 18569.864994464304
2189 Adjusted Numbers: [ 0.95050856 0.50264876 0.
    91216727 0.7879804 -0.6522899 0.71278643
2190   -0.9616136 -0.89685037 0.82034707 -0.91984479]
2191 The next position: [ 8.39156875 79.31161184 58.
    09728416 -24.78921147 49.74374018
2192   -6.47587753 57.03255583 -1.64122036 92.
    71631694 20.1516914 ]
2193 The next value: 13749.257967979362
2194 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.
    72905187 -0.90343535 0.63992982 0.68174552
2195   0.6486505 0.80640164 0.80420654 -0.63716313]
2196 The next position: [ 23.07498555 66.49483113 43.
    55309436 -42.81225713 62.50999337
2197   7.12457624 69.97278178 14.4460554 108.
    75980165 7.44063222]
2198 The next value: 17130.11798000316
2199 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
    62827015 0.78384671 0.61238798 0.90777717
2200   -0.79954623 0.83896523 0.9284826 0.99769401]
2201 The next position: [ 24.20970918 64.05625445 45.
    56651785 -9.15549091 61.95773866
2202   11.62961986 41.08571048 15.09183185 111.
    23478146 40.05056856]

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2203 The next value: 13667.403012218336
2204 Adjusted Numbers: [-0.70110339  0.73625211 -0.
   67501413  0.73111913 -0.75236003  0.69601646
2205  0.61463792  0.63820148 -0.68563341 -0.86166601]
2206 The next position: [10.22950954 78.73732957 32.
   10654542  5.42323102 46.95546706 25.50838463
2207  53.34176416 27.81774956 86.32827623 22.86870496]
2208 The next value: 10956.745186683303
2209 Adjusted Numbers: [ 0.89485755 -0.59291463  0.
   9441112  0.73276465  0.95104301  0.71160668
2210 -0.97657183 -0.78004387  0.95998112 -0.65674065]
2211 The next position: [ 28.06911771 66.91716355 50.
   92805945 20.0314045 65.91517158
2212  39.69475931 33.87312482 12.26703194 105.
   46616829  9.77612298]
2213 The next value: 8740.83370540986
2214 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
   60000695 -0.96295641  0.58739541 -0.55215062
2215 -0.80929664  0.85616259  0.9088288 -0.93632214]
2216 The next position: [ 38.87323907 49.15208552 38.
   96925434 0.8386134 77.62261462
2217  28.68978395 17.7429437 29.33130347 118.
   11396775 -8.88581753]
2218 The next value: 7451.839863799582
2219 Adjusted Numbers: [-0.67061169  0.7429568  0.
   65445718 -0.52421436  0.868428  0.72793191
2220  0.57126561  0.67981995  0.96024406 -0.87611001]
2221 The next position: [ 25.5102773 63.95663419 52.
   01031283 -9.60715805 94.92736837
2222  43.19493872 29.12628312 42.877754 119.134329
   -26.34364712]
2223 The next value: 7662.497870325533
2224 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
   62761399  0.88874478  0.97910159 -0.51908238
2225 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
2226 The next position: [ 24.85699866 37.59113252 26.
   46596378 18.54413689 97.12822139
2227  18.34865393 6.88208282 9.58293892 82.
   39016361 -21.45988598]
2228 The next value: 5406.701068989471
2229 Adjusted Numbers: [-0.87640824  0.89268698 -0.
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2229 74449632 -0.64079264 -0.95064254 -0.86550074
2230 0.85878555 -0.59260631 0.57315842 0.79334259]
2231 The next position: [ 7.40125885 55.37110191 11.
63756128 5.78123802 78.19393003 1.11016272
2232 23.98682516 -2.22021531 93.8059672 -5.65859476]
2233 The next value: 8352.80246297186
2234 Adjusted Numbers: [ 0.98067789 -0.56620603 0.
82615641 -0.97335525 -0.958698 0.51675731
2235 -0.8599657 -0.73307221 0.67663423 0.66209691]
2236 The next position: [ 44.3850225 26.31639599 42.
91703511 -0.83807266 78.03787836
2237 28.63872886 -10.24222553 -5.01456725 95.
86383258 -8.27569541]
2238 The next value: 6821.803581079061
2239 The best position: [-16.59559906 44.06489869 -99.
97712504 -39.53348547 -70.64882184
2240 -81.53228105 -62.74795772 -30.88785459 -20.
64650515 7.7633468 ]
2241 The best value: 7930.138689395092
2242 Adjusted Numbers: [-0.66161097 0.870439 -0.
5910955 0.75623487 -0.94522481 0.84093502
2243 -0.6653904 0.61737966 -0.71922612 -0.60379702]
2244 The next position: [ -29.82781848 61.4736787 -
111.79903505 -24.40878802 -89.55331811
2245 -64.71358064 -76.05576563 -18.54026145 -35.
03102761 -4.31259364]
2246 The next value: 8542.71420734215
2247 Adjusted Numbers: [ 0.60148914 0.93652315 -0.
87315164 0.88464523 0.7527783 0.78921333
2248 -0.82991158 -0.92189043 -0.66033916 0.75628501]
2249 The next position: [ -4.56858316 62.79105371 -
117.43614141 -21.84465021 -55.59671852
2250 -65.75164489 -79.34237168 -49.32142257 -33.
85025081 22.88556803]
2251 The next value: 8175.939168446734
2252 Adjusted Numbers: [-0.80330633 -0.65778475 0.
91577906 0.56633057 0.88375423 -0.86896874
2253 0.87300186 0.66925134 -0.96342345 0.50028863]
2254 The next position: [-32.65433614 30.91525461 -81.
66996803 -28.21208372 -52.98186688
2255 -98.90366221 -45.29595131 -17.50898412 -39.
```

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2255 90611158 17.76451727]
2256 The next value: 7325.575960350218
2257 Adjusted Numbers: [ 0.97772218 0.99633131 -0.
    93911202 0.57855866 -0.79354799 -0.60421295
2258 0.81719101 -0.9127717 -0.92444932 -0.73994286]
2259 The next position: [ -13.11338204 50.82813458 -
    100.43925158 -16.64889285 -68.84187818
2260 -110.97958494 -28.96340583 -35.75182483 -58.
    38234357 2.97586902]
2261 The next value: 8679.022182664332
2262 Adjusted Numbers: [-0.96126608 0.85767107 -0.
    57674377 -0.96890668 -0.51685368 -0.89327491
2263 0.64823521 -0.70654285 0.67861107 0.89951672]
2264 The next position: [ -51.86197663 48.05290023 -
    93.19423496 -47.57239561 -63.30943368
2265 -116.75272982 -32.3431705 -31.62684522 -26.
    34637224 35.73830627]
2266 The next value: 8990.22067232872
2267 Adjusted Numbers: [-0.79533114 -0.67188802 0.
    88880032 -0.67164146 -0.90009308 0.57179281
2268 0.82758929 0.52977822 0.88918951 0.67311008]
2269 The next position: [ -48.54267478 17.49294044 -63.
    91439473 -41.62947229 -70.9630359
2270 -87.48095116 -28.7631913 -6.92559893 -22.1427633
    31.21124448]
2271 The next value: 6722.945443992157
2272 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.
    72144731 0.61478258 -0.70464633 -0.66929161
2273 0.85501716 -0.80446828 0.50162421 0.95199597]
2274 The next position: [ -32.42885316 3.0119285 -
    78.32344034 -29.35077898 -85.03652537
2275 -100.84832145 -11.68643299 -22.99277398 -12.
    12411604 50.22490391]
2276 The next value: 7003.703365853895
2277 Adjusted Numbers: [ 0.76661218 0.74734441 0.
    50188487 -0.80220332 -0.96014422 0.79177244
2278 -0.64381762 0.92968009 0.826883 0.74339144]
2279 The next position: [ -33.23509902 32.41578083 -53.
    89284691 -57.64772548 -90.13502491
2280 -71.67097992 -41.61882708 11.6380879 -5.
    63171065 46.05515259]
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2281 The next value: 6232.703773907913
2282 Adjusted Numbers: [-0.77050805 0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
2283 0.80675904 0.64735897 -0.99425935 0.73428983]
2284 The next position: [ -48.61692822 50.36229539 -
65.87429288 -44.53629093 -103.78441192
2285 -82.17056147 -25.5133111 24.56146373 -25.
48033827 60.71394902]
2286 The next value: 7402.37793690649
2287 Adjusted Numbers: [-0.8467102 0.5541162 0.
7718842 -0.78546048 0.8170703 0.74672023
2288 -0.96835751 0.85887447 0.88179384 0.9946457 ]
2289 The next position: [-50.13428138 43.47518561 -38.
48708956 -73.32444691 -73.82741448
2290 -56.76746108 -60.94592423 28.78005254 11.
96769335 65.90692614]
2291 The next value: 6879.989853235495
2292 The best position: [-65.53189833 -72.57285007 86.
51909261 39.3636323 -86.79996546
2293 51.09261052 50.77523769 84.60490711 42.
30495173 -75.14580761]
2294 The best value: 13790.993728389987
2295 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
2296 0.60564396 0.68406178 -0.75165337 -0.94163264]
2297 The next position: [-84.69256764 -91.4808671 67.
69470304 29.23539943 -72.43193582
2298 62.61930812 62.86028603 98.25470851 27.
30642462 -93.93519015]
2299 The next value: 18988.118440113565
2300 Adjusted Numbers: [ 0.67151854 0.9391915 0.
62206044 -0.96270542 0.60126535 -0.53405145
2301 0.61421039 -0.72427871 0.72708371 0.99424329]
2302 The next position: [-52.13546726 -53.83648862 98.
92886129 20.15818079 -74.80504761
2303 40.43857342 63.02840219 70.15593926 56.
80987775 -55.31119279]
2304 The next value: 13565.703794835763
2305 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
88016462 -0.75731309 -0.91089624 -0.78501174
2306 -0.54858132 0.92597796 0.61943396 -0.97488804]
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2307 The next position: [-39.91962409 -68.33819498 81.  
37409255 5.05366986 -92.97275455  
2308 24.78161646 52.08701914 88.6244491 69.1644075  
-74.75520779]  
2309 The next value: 17655.12274352967  
2310 Adjusted Numbers: [-0.85605144 0.93455266 0.  
63620092 -0.59341353 -0.99534851 0.98765171  
2311 -0.60914104 0.66271785 0.94003998 0.6936576 ]  
2312 The next position: [-69.20537478 -35.20124461 111.  
61488741 8.32534737 -94.65257806  
2313 60.13262745 50.88195784 83.37072047 75.  
55454044 -41.47946426]  
2314 The next value: 15385.083380503393  
2315 Adjusted Numbers: [-0.52030448 -0.51246057 0.  
73991144 0.6579618 -0.68641721 -0.9628476  
2316 -0.85995571 -0.52730978 0.71265892 0.63770287]  
2317 The next position: [-62.50809934 -64.05274688 113.  
6795109 33.27510732 -88.48925258  
2318 21.24353628 45.88458637 59.64365172 71.  
01722953 -42.59814203]  
2319 The next value: 13281.020516198616  
2320 Adjusted Numbers: [-0.86527518 0.97723231 0.  
65949044 -0.73971765 0.60189644 0.99066886  
2321 0.83846579 -0.97016088 -0.86733033 -0.7598316 ]  
2322 The next position: [-79.753995 -44.57542128 113.  
14437712 18.53171265 -76.49278787  
2323 40.98866731 62.59614102 40.30726746 53.  
73037245 -57.74243006]  
2324 The next value: 12875.923516860352  
2325 Adjusted Numbers: [ 0.75943501 -0.57965198 0.  
50551111 -0.86692704 -0.9793698 0.60950913  
2326 -0.61313143 0.77892176 0.54934062 0.84961594]  
2327 The next position: [-64.62109282 -56.12587201 110.  
07308064 1.25686778 -96.00822652  
2328 53.13406729 50.37856104 55.82847284 64.  
67682301 -40.81253523]  
2329 The next value: 13526.44420856109  
2330 Adjusted Numbers: [-0.97340646 -0.86807782 0.  
97013193 0.54435606 0.81563171 0.86394414  
2331 -0.97209685 -0.53127583 0.73355671 0.89803264]  
2332 The next position: [-99.1461437 -61.86921873 119.
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2332 32691364 29.37634342 -60.24381895
2333 58.20011381 43.2300822 29.72322032 68.
    34424802 -39.85187432]
2334 The next value: 14062.796115572308
2335 Adjusted Numbers: [ 0.90035224 0.61330638 0.
    8312127 0.78313242 -0.71998457 -0.52801867
2336 0.70862097 0.59909584 0.85236285 0.83746687]
2337 The next position: [-61.82135383 -32.35997636 116.
    55556397 34.12964425 -90.83298099
2338 30.47192857 76.71000108 52.23967605 70.
    70719168 -41.06229949]
2339 The next value: 13174.84587598982
2340 Adjusted Numbers: [-0.71024877 0.92652506 -0.
    65208867 -0.74734096 -0.72984168 0.51132433
2341 -0.95695039 0.89594042 0.65423094 -0.96996204]
2342 The next position: [-93.89702307 -26.12573102 87.
    0151014 3.65007599 -91.02596526
2343 51.17055658 43.54059779 58.1479326 66.
    75792972 -77.0570714 ]
2344 The next value: 15129.748032501444
2345 Function 11: Best Value among Trials = 2751.0751
2346 The best position: [ 9.76270079 43.03787327 20.
    55267521 8.9766366 -15.26904013
2347 29.17882261 -12.48255775 78.35460016 92.7325521
    -23.31169623]
2348 The best value: 3895.0624349433447
2349 Adjusted Numbers: [ 0.58345008 0.55778984 0.
    63608912 0.85119328 -0.85792788 -0.8257414
2350 -0.95956321 0.66523969 0.5563135 0.7400243 ]
2351 The next position: [ 21.43170231 54.19367006 33.
    27445766 26.00050213 -32.4275978
2352 12.6639946 -31.67382185 91.65939398 103.
    85882214 -8.5112103 ]
2353 The next value: 3729.4666877237905
2354 Adjusted Numbers: [ 0.95723668 0.59831713 -0.
    57704128 0.56105835 -0.76345115 0.77984204
2355 -0.71329343 0.88933783 0.54369664 -0.67067612]
2356 The next position: [ 40.57203271 66.15726037 21.
    73628654 37.21908831 -47.69310889
2357 28.25724818 -45.9364092 109.44205971 110.
    87143187 -21.9216476 ]

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2358 The next value: 3707.7056606598885
2359 Adjusted Numbers: [-0.97088878  0.54846738 -0.
                         58769934  0.6368679 -0.9624204  0.73527099
2360   0.72419145  0.73386799  0.88749616  0.8636406 ]
2361 The next position: [ 21.16318834  77.12156263   9.
                           98770604  49.95058776 -66.93266363
2362   42.95590435 -31.45924209 114.67060907 117.
                           74175911 -4.65678021]
2363 The next value: 5111.023784744995
2364 Adjusted Numbers: [-0.7809842 -0.62593609  0.
                         89526239 -0.87954906  0.83353343  0.84127574
2365   -0.57923488 -0.7421474 -0.8691433 -0.77257846]
2366 The next position: [ 24.96312384  53.64717446  39.
                           6291826  19.64024216 -31.03394039
2367   45.07115603 -57.51311516  85.16729118  82.
                           62912546 -37.36255763]
2368 The next value: 3474.329661480682
2369 Adjusted Numbers: [ 0.64039354 -0.62279697  0.
                         97674768 -0.79591038 -0.58224649 -0.67738096
2370   0.80621665 -0.99341679 -0.56737845 -0.51114882]
2371 The next position: [ 37.75921548  41.20269051  59.
                           14617016  3.73667429 -42.66816051
2372   31.53599626 -41.40361141  65.31722785  71.
                           29199253 -47.57613205]
2373 The next value: 3492.938780541425
2374 Adjusted Numbers: [-0.68206083 -0.77924972  0.
                         81265918 -0.7236341 -0.60683528 -0.76254966
2375   0.64198646 -0.80579745  0.67588981 -0.80780318]
2376 The next position: [ 11.33758737  38.08009461  55.
                           86368361  5.18419615 -43.15669513
2377   29.83769343 -44.68814486  69.06986703  96.
                           13138344 -53.50005038]
2378 The next value: 3758.5710582267257
2379 Adjusted Numbers: [ 0.95291893 -0.5626976   0.
                         95352218  0.70969104  0.97852716 -0.92162442
2380   -0.93438607 -0.75960688 -0.9077196 -0.76254456]
2381 The next position: [ 43.99521699  42.40874405  58.
                           67332404  33.81448674 -11.49038904
2382   26.66408993 -76.17506242  69.99610673  64.
                           49977202 -52.59241474]
2383 The next value: 4091.432050376383
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2384 Adjusted Numbers: [-0.86403364 -0.67147401 -0.  
87170501 0.88494424 0.63320291 -0.96922102  
2385 0.54649611 -0.81211898 0.65189299 0.8585924 ]  
2386 The next position: [ 7.7102537 40.23930079 22.  
22313199 37.31065139 -18.39025729  
2387 25.71792306 -46.60077806 68.95104381 95.6460088  
-20.21833733]  
2388 The next value: 3678.4958644202065  
2389 Adjusted Numbers: [-0.8628621 0.83482076 -0.  
73640428 0.93265441 -0.92118781 -0.63361728  
2390 0.67302587 -0.95978491 0.65788006 -0.99060905]  
2391 The next position: [ 7.73760971 70.31289297 24.  
92817496 38.25903626 -49.42382424  
2392 32.42210887 -44.07734519 66.0068847 95.  
76253612 -57.1383135 ]  
2393 The next value: 3966.484177396699  
2394 Adjusted Numbers: [ 0.85563307 -0.95998405 0.  
97038804 0.92437709 -0.50249371 0.65231467  
2395 0.68408386 0.64450381 -0.55383673 0.90549802]  
2396 The next position: [ 42.04039467 34.48720018 58.  
99680636 38.08954995 -41.06303054  
2397 58.09046841 -43.85973294 98.03070949 71.  
57529852 -19.29005031]  
2398 The next value: 3478.6730026322803  
2399 The best position: [-10.57492428 69.28173449 39.  
89585506 -40.51260983 62.75956394  
2400 -20.69885183 76.22063942 16.25457453 76.  
34707237 38.50631802]  
2401 The best value: 5865.8917652866185  
2402 Adjusted Numbers: [ 0.95050856 0.50264876 0.  
91216727 0.7879804 -0.6522899 0.71278643  
2403 -0.9616136 -0.89685037 0.82034707 -0.91984479]  
2404 The next position: [ 8.39156875 79.31161184 58.  
09728416 -24.78921147 49.74374018  
2405 -6.47587753 57.03255583 -1.64122036 92.  
71631694 20.1516914 ]  
2406 The next value: 7174.779332074608  
2407 Adjusted Numbers: [ 0.73603086 -0.6424626 -0.  
72905187 -0.90343535 0.63992982 0.68174552  
2408 0.6486505 0.80640164 0.80420654 -0.63716313]  
2409 The next position: [ 4.10849252 56.46495378 25.
```

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2409 35166526 -58.5356555 75.52581713
2410 -7.09839806 89.16086538 32.34185029 92.
      39055708 25.79525884]
2411 The next value: 5559.5782844157
2412 Adjusted Numbers: [ 0.79309319 -0.76487626 -0.
      62827015 0.78384671 0.61238798 0.90777717
2413 -0.79954623 0.83896523 0.9284826 0.99769401]
2414 The next position: [ 19.92663295 41.20959638 12.
      82089895 -42.90193494 87.73981561
2415 11.00709932 73.21402004 49.0749025 110.
      90902161 45.694136 ]
2416 The next value: 4829.292060906144
2417 Adjusted Numbers: [-0.70110339 0.73625211 -0.
      67501413 0.73111913 -0.75236003 0.69601646
2418 0.61463792 0.63820148 -0.68563341 -0.86166601]
2419 The next position: [ 5.94643331 55.89067151 -0.
      63907348 -28.32321301 72.73754401
2420 24.8858641 85.47007372 61.80082022 86.
      32827623 28.5122724 ]
2421 The next value: 6543.747335252822
2422 Adjusted Numbers: [ 0.89485755 -0.59291463 0.
      9441112 0.73276465 0.95104301 0.71160668
2423 -0.97657183 -0.78004387 0.95998112 -0.65674065]
2424 The next position: [ 37.76624113 29.38943036 31.
      64241298 -28.29376146 106.69952012
2425 25.193474 53.74538069 33.52418487 119.
      13789205 32.60155402]
2426 The next value: 5003.9751602677115
2427 Adjusted Numbers: [ 0.54207321 -0.89132402 -0.
      60000695 -0.96295641 0.58739541 -0.55215062
2428 -0.80929664 0.85616259 0.9088288 -0.93632214]
2429 The next position: [ 3.07307543e+01 2.34445184e+
      01 8.62093836e-01 -6.20947260e+01
2430 9.94472586e+01 2.12395912e-03 5.70838389e+01 6
      .61391740e+01
2431 1.18113968e+02 2.70321955e+01]
2432 The next value: 3729.8527037794483
2433 Adjusted Numbers: [-0.67061169 0.7429568 0.
      65445718 -0.52421436 0.868428 0.72793191
2434 0.57126561 0.67981995 0.96024406 -0.87611001]
2435 The next position: [ 17.36779254 38.24906702 13.
```

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2435 90315233 -72.54049749 116.7520124
2436 14.50727873 68.46717834 79.68562456 119.134329
         9.5743659 ]
2437 The next value: 4071.1321385845054
2438 Adjusted Numbers: [-0.70355788 -0.5803125 -0.
    62761399 0.88874478 0.97910159 -0.51908238
2439 -0.54517074 -0.99128704 -0.88394168 -0.63116675]
2440 The next position: [ 16.7145139 11.88356535 -11.
    64119672 -44.38920255 118.95286542
2441 -10.33900606 46.22297803 46.39080948 82.
    39016361 14.45812705]
2442 The next value: 3812.253336546525
2443 Adjusted Numbers: [-0.87640824 0.89268698 -0.
    74449632 -0.64079264 -0.95064254 -0.86550074
2444 0.85878555 -0.59260631 0.57315842 0.79334259]
2445 The next position: [ 13.27501449 41.22448775 -13.
    96630866 -74.85762491 80.51296729
2446 -17.23636725 74.18858126 54.33601981 111.
    41580359 42.83348672]
2447 The next value: 3713.8291522239506
2448 Adjusted Numbers: [ 0.98067789 -0.56620603 0.
    82615641 -0.97335525 -0.958698 0.51675731
2449 -0.8599657 -0.73307221 0.67663423 0.66209691]
2450 The next position: [ 32.80303833 29.94975123 2.
    48476266 -94.23983446 61.42262425
2451 -6.94629232 57.06427291 39.73851363 113.
    47366897 56.01767729]
2452 The next value: 3437.1169753928416
2453 The best position: [-16.59559906 44.06489869 -99.
    97712504 -39.53348547 -70.64882184
2454 -81.53228105 -62.74795772 -30.88785459 -20.
    64650515 7.7633468 ]
2455 The best value: 4593.5057054772
2456 Adjusted Numbers: [-0.66161097 0.870439 -0.
    5910955 0.75623487 -0.94522481 0.84093502
2457 -0.6653904 0.61737966 -0.71922612 -0.60379702]
2458 The next position: [ -29.82781848 61.4736787 -
    111.79903505 -24.40878802 -89.55331811
2459 -64.71358064 -76.05576563 -18.54026145 -35.
    03102761 -4.31259364]
2460 The next value: 4843.867960580274
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2461 Adjusted Numbers: [ 0.60148914  0.93652315 -0.
                      87315164  0.88464523  0.7527783   0.78921333
2462 -0.82991158 -0.92189043 -0.66033916  0.75628501]
2463 The next position: [ -4.56858316   62.79105371 -
                          117.43614141 -21.84465021 -55.59671852
2464 -65.75164489 -79.34237168 -49.32142257 -33.
                  85025081  22.88556803]
2465 The next value: 4789.744536042133
2466 Adjusted Numbers: [-0.80330633 -0.65778475  0.
                      91577906  0.56633057  0.88375423 -0.86896874
2467 0.87300186  0.66925134 -0.96342345  0.50028863]
2468 The next position: [-32.65433614  30.91525461 -81.
                          66996803 -28.21208372 -52.98186688
2469 -98.90366221 -45.29595131 -17.50898412 -39.
                  90611158  17.76451727]
2470 The next value: 3834.207578932942
2471 Adjusted Numbers: [ 0.97772218  0.99633131 -0.
                      93911202  0.57855866 -0.79354799 -0.60421295
2472 0.81719101 -0.9127717 -0.92444932 -0.73994286]
2473 The next position: [ -13.11338204   50.82813458 -
                          100.43925158 -16.64889285 -68.84187818
2474 -110.97958494 -28.96340583 -35.75182483 -58.
                  38234357  2.97586902]
2475 The next value: 3504.2246056595445
2476 Adjusted Numbers: [-0.96126608  0.85767107 -0.
                      57674377 -0.96890668 -0.51685368 -0.89327491
2477 0.64823521 -0.70654285  0.67861107  0.89951672]
2478 The next position: [-32.32102253   67.96578019 -
                          111.52426694 -36.00920474 -79.16944498
2479 -117.84906761 -16.01062502 -49.86968593 -44.
                  82260423  20.94965802]
2480 The next value: 3351.6503217201916
2481 Adjusted Numbers: [-0.79533114 -0.67188802  0.
                      88880032 -0.67164146 -0.90009308  0.57179281
2482 0.82758929  0.52977822  0.88918951  0.67311008]
2483 The next position: [-48.20936118  54.54346602 -82.
                          2444267 -49.42659331 -97.150614
2484 -88.57728895  0.52213499 -39.28630075 -27.
                  05925595  34.39638523]
2485 The next value: 3396.5485670519774
2486 Adjusted Numbers: [ 0.80680383 -0.72505059 -0.

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2486 72144731 0.61478258 -0.70464633 -0.66929161
2487 0.85501716 -0.80446828 0.50162421 0.95199597]
2488 The next position: [ -16.20720091 53.48476825 -
114.40904561 -23.73051144 -93.24293444
2489 -113.36737029 1.06613328 -65.93686098 -34.
80395698 39.96331745]
2490 The next value: 3402.796675300315
2491 Adjusted Numbers: [ 0.76661218 0.74734441 0.
50188487 -0.80220332 -0.96014422 0.79177244
2492 -0.64381762 0.92968009 0.826883 0.74339144]
2493 The next position: [-17.01344677 82.88862058 -89.
97845219 -52.02745793 -98.34143399
2494 -84.19002876 -28.8662608 -31.3059991 -28.
31155159 35.79356614]
2495 The next value: 3569.1455175244887
2496 Adjusted Numbers: [-0.77050805 0.89897852 -0.
60017573 0.65677923 -0.68372639 -0.52594604
2497 0.80675904 0.64735897 -0.99425935 0.73428983]
2498 The next position: [-4.77028517e+01 8.59122947e+
01 -1.11981446e+02 -2.28977702e+01
2499 -9.28188320e+01 -1.10499582e+02 9.48909551e-02 -3
.69463101e+01
2500 -6.46712318e+01 3.56084544e+01]
2501 The next value: 3591.423640971118
2502 Adjusted Numbers: [-0.8467102 0.5541162 0.
7718842 -0.78546048 0.8170703 0.74672023
2503 -0.96835751 0.85887447 0.88179384 0.9946457 ]
2504 The next position: [-49.22020489 79.02518496 -84.
59424265 -51.68592618 -62.86183455
2505 -85.09648116 -35.33772217 -32.72772129 -27.
22320023 40.80143157]
2506 The next value: 3600.107804049368
2507 The best position: [-65.53189833 -72.57285007 86.
51909261 39.3636323 -86.79996546
2508 51.09261052 50.77523769 84.60490711 42.
30495173 -75.14580761]
2509 The best value: 6607.691479299704
2510 Adjusted Numbers: [-0.96023973 -0.94757803 -0.
94338702 -0.50757786 0.7200559 0.57766213
2511 0.60564396 0.68406178 -0.75165337 -0.94163264]
2512 The next position: [-84.69256764 -91.4808671 67.

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```
2512 69470304 29.23539943 -72.43193582
2513 62.61930812 62.86028603 98.25470851 27.
      30642462 -93.93519015]
2514 The next value: 6366.10883853522
2515 Adjusted Numbers: [ 0.67151854 0.9391915 0.
      62206044 -0.96270542 0.60126535 -0.53405145
      0.61421039 -0.72427871 0.72708371 0.99424329]
2516 The next position: [-71.29613657 -72.74450564 80.
      10447173 10.02994792 -60.43701797
2517 51.96527102 75.11345053 83.80574066 41.
      81135065 -74.10057533]
2518 The next value: 6542.1926680025335
2519 Adjusted Numbers: [ 0.61248047 -0.72708955 -0.
      88016462 -0.75731309 -0.91089624 -0.78501174
      -0.54858132 0.92597796 0.61943396 -0.97488804]
2520 The next position: [-72.47672447 -105.98257346
      50.1399343 14.1308885 -90.59964276
2521 46.96235116 51.91890299 116.72321835 39.
      66095437 -113.37920514]
2522 The next value: 4527.160448828893
2523 Adjusted Numbers: [-0.85605144 0.93455266 0.
      63620092 -0.59341353 -0.99534851 0.98765171
      -0.60914104 0.66271785 0.94003998 0.6936576 ]
2524 The next position: [-89.54663199 -81.36475599
      62.82596042 2.29805509 -110.44717321
2525 66.65640519 39.77245864 113.21478121 58.
      40561705 -86.16827147]
2526 The next value: 4346.740838850575
2527 Adjusted Numbers: [-0.52030448 -0.51246057 0.
      73991144 0.6579618 -0.68641721 -0.9628476
      -0.85995571 -0.52730978 0.71265892 0.63770287]
2528 The next position: [-99.91926406 -91.58101425
      77.57661003 15.41498162 -113.68420497
2529 47.46136804 22.62864282 89.48771247 72.
      61296883 -73.45522071]
2530 The next value: 3875.238670206867
2531 Adjusted Numbers: [-0.86527518 0.97723231 0.
      65949044 -0.73971765 0.60189644 0.99066886
      0.83846579 -0.97016088 -0.86733033 -0.7598316 ]
2532 The next position: [-117.16515973 -72.10368865
      90.72098715 0.67158695 -88.00353529
```

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2538    67.20649907  39.34019747  70.15132821  55.  
        32611175  -88.59950874]  
2539 The next value: 4721.540649229582  
2540 Adjusted Numbers: [ 0.75943501 -0.57965198  0.  
        50551111 -0.86692704 -0.9793698   0.60950913  
2541  -0.61313143  0.77892176  0.54934062  0.84961594]  
2542 The next position: [ -84.78636188 -103.13146498  
        87.64969067  -1.85986324 -119.51543865  
2543    59.60676802  10.41106284  105.00891784  83.  
        5594194  -56.52532588]  
2544 The next value: 4040.855949928241  
2545 Adjusted Numbers: [-0.97340646 -0.86807782  0.  
        97013193  0.54435606  0.81563171  0.86394414  
2546  -0.97209685 -0.53127583  0.73355671  0.89803264]  
2547 The next position: [-119.31141276 -108.8748117  
        96.90352367  26.2596124   -83.75103107  
2548    64.67281455  3.262584     78.90366532  87.  
        22684441  -55.56466497]  
2549 The next value: 4055.528437735979  
2550 Adjusted Numbers: [ 0.90035224  0.61330638  0.  
        8312127   0.78313242 -0.71998457 -0.52801867  
2551  0.70862097  0.59909584  0.85236285  0.83746687]  
2552 The next position: [-81.98662289  -79.36556934  
        94.13217399  31.01291323 -114.34019312  
2553    36.94462931  36.74250289  101.42012105  89.  
        58978806  -56.77509014]  
2554 The next value: 4369.121024913851  
2555 Adjusted Numbers: [-0.71024877  0.92652506 -0.  
        65208867 -0.74734096 -0.72984168  0.51132433  
2556  -0.95695039  0.89594042  0.65423094 -0.96996204]  
2557 The next position: [-114.06229213  -73.131324  
        64.59171142  0.53334497 -114.53317738  
2558    57.64325731  3.57309959  107.3283776   85.  
        6405261  -92.76986205]  
2559 The next value: 3901.091436886202  
2560 Function 12: Best Value among Trials = 2982.7394  
2561  
2562 Total time taken for the whole algorithm = 14.1616  
seconds  
2563  
2564 Process finished with exit code 0
```