

```
1 C:\Users\wilko\AppData\Local\Programs\Python\Python38
  \python.exe "C:/Users/wilko/OneDrive/Documents/DIS
  Code/Neat AI.py"
2 pygame 2.0.1 (SDL 2.0.14, Python 3.8.7)
3 Hello from the pygame community. https://www.pygame.
  org/contribute.html
4 Ai: 0 Gen: 1
5 Sim Starting
6 Sim over Total pop = 0 Tick Complete = 616 Fitness
  = -177.0499999999998
7 Ai: 1 Gen: 1
8 Sim Starting
9 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 256.5
10 Ai: 2 Gen: 1
11 Sim Starting
12 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 269.5
13 Ai: 3 Gen: 1
14 Sim Starting
15 Sim over Total pop = 0 Tick Complete = 2211 Fitness
  = 146.30000000000072
16 Ai: 4 Gen: 1
17 Sim Starting
18 Sim over Total pop = 0 Tick Complete = 693 Fitness
  = 194.2500000000001
19 Ai: 5 Gen: 1
20 Sim Starting
21 Sim over Total pop = 0 Tick Complete = 1397 Fitness
  = 419.7500000000002
22 Ai: 6 Gen: 1
23 Sim Starting
24 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 251.0
25 Ai: 7 Gen: 1
26 Sim Starting
27 Sim over Total pop = 0 Tick Complete = 1210 Fitness
  = 249.6499999999997
28 Ai: 8 Gen: 1
29 Sim Starting
30 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 218.0
31 Ai: 9 Gen: 1
32 Sim Starting
```

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33 Sim over Total pop = 0 Tick Complete = 748 Fitness
= 240.8999999999998
34 Ai: 10 Gen: 1
35 Sim Starting
36 Sim over Total pop = 0 Tick Complete = 1287 Fitness
= 153.0999999999943
37 Ai: 11 Gen: 1
38 Sim Starting
39 Sim over Total pop = 0 Tick Complete = 1100 Fitness
= 169.2499999999974
40 Ai: 12 Gen: 1
41 Sim Starting
42 Sim over Total pop = 0 Tick Complete = 1507 Fitness
= 654.499999999999
43 Ai: 13 Gen: 1
44 Sim Starting
45 Sim over Total pop = 0 Tick Complete = 737 Fitness
= 247.6000000000008
46 Ai: 14 Gen: 1
47 Sim Starting
48 Sim over Total pop = 0 Tick Complete = 3399 Fitness
= 241.3000000000015
49 Ai: 15 Gen: 1
50 Sim Starting
51 Sim over Total pop = 0 Tick Complete = 671 Fitness
= 224.5
52 Ai: 16 Gen: 1
53 Sim Starting
54 Sim over Total pop = 0 Tick Complete = 1243 Fitness
= 602.199999999995
55 Ai: 17 Gen: 1
56 Sim Starting
57 Sim over Total pop = 0 Tick Complete = 3003 Fitness
= 394.2500000000021
58 Ai: 18 Gen: 1
59 Sim Starting
60 Sim over Total pop = 0 Tick Complete = 1089 Fitness
= 188.8999999999998
61 Ai: 19 Gen: 1
62 Sim Starting
63 Sim over Total pop = 0 Tick Complete = 1342 Fitness
= 299.5
64 Ai: 20 Gen: 1
65 Sim Starting
```

```
66 Sim over Total pop = 0 Tick Complete = 6061
  Fitness = 417.600000000000673
67 Ai: 21 Gen: 1
68 Sim Starting
69 Sim over Total pop = 0 Tick Complete = 2112
  Fitness = 357.1999999999993
70 Ai: 22 Gen: 1
71 Sim Starting
72 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 190.5
73 Ai: 23 Gen: 1
74 Sim Starting
75 Sim over Total pop = 0 Tick Complete = 715 Fitness
  = 238.25
76 Ai: 24 Gen: 1
77 Sim Starting
78 Sim over Total pop = 0 Tick Complete = 781 Fitness
  = -163.0
79 Ai: 25 Gen: 1
80 Sim Starting
81 Sim over Total pop = 0 Tick Complete = 803 Fitness
  = 234.5
82 Ai: 26 Gen: 1
83 Sim Starting
84 Sim over Total pop = 0 Tick Complete = 1507
  Fitness = 796.4499999999972
85 Ai: 27 Gen: 1
86 Sim Starting
87 Sim over Total pop = 0 Tick Complete = 7062
  Fitness = 827.9999999999839
88 Ai: 28 Gen: 1
89 Sim Starting
90 Sim over Total pop = 0 Tick Complete = 891 Fitness
  = -141.1
91 Ai: 29 Gen: 1
92 Sim Starting
93 Sim over Total pop = 0 Tick Complete = 748 Fitness
  = 223.5
94 Ai: 30 Gen: 1
95 Sim Starting
96 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 256.5
97 Ai: 31 Gen: 1
98 Sim Starting
```

```
99 Sim over Total pop = 0 Tick Complete = 7447
    Fitness = 421.7499999999951
100 Ai: 32 Gen: 1
101 Sim Starting
102 Sim over Total pop = 0 Tick Complete = 748 Fitness
    = 327.7999999999995
103 Ai: 33 Gen: 1
104 Sim Starting
105 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 213.55000000000084
106 Ai: 34 Gen: 1
107 Sim Starting
108 Sim over Total pop = 0 Tick Complete = 9724
    Fitness = 555.7000000000014
109 Ai: 35 Gen: 1
110 Sim Starting
111 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 334.0499999999972
112 Ai: 36 Gen: 1
113 Sim Starting
114 Sim over Total pop = 0 Tick Complete = 2486
    Fitness = 209.1999999999936
115 Ai: 37 Gen: 1
116 Sim Starting
117 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = 130.75
118 Ai: 38 Gen: 1
119 Sim Starting
120 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 268.4000000000003
121 Ai: 39 Gen: 1
122 Sim Starting
123 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 359.6499999999867
124 Ai: 40 Gen: 1
125 Sim Starting
126 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 450.75
127 Ai: 41 Gen: 1
128 Sim Starting
129 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 287.85
130 Ai: 42 Gen: 1
131 Sim Starting
```

```
132 Sim over Total pop = 0 Tick Complete = 990 Fitness
    = 284.64999999999975
133 Ai: 43 Gen: 1
134 Sim Starting
135 Sim over Total pop = 0 Tick Complete = 770 Fitness
    = 151.0
136 Ai: 44 Gen: 1
137 Sim Starting
138 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 240.6500000000009
139 Ai: 45 Gen: 1
140 Sim Starting
141 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = -47.0
142 Ai: 46 Gen: 1
143 Sim Starting
144 Sim over Total pop = 0 Tick Complete = 3311
    Fitness = 779.1500000000026
145 Ai: 47 Gen: 1
146 Sim Starting
147 Sim over Total pop = 0 Tick Complete = 11198
    Fitness = 618.2499999999883
148 Ai: 48 Gen: 1
149 Sim Starting
150 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = 347.5
151 Ai: 49 Gen: 1
152 Sim Starting
153 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 190.5
154 Ai: 0 Gen: 2
155 Sim Starting
156 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = -184.4
157 Ai: 1 Gen: 2
158 Sim Starting
159 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = -177.05
160 Ai: 2 Gen: 2
161 Sim Starting
162 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = 146.5
163 Ai: 3 Gen: 2
164 Sim Starting
```

```
165 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 289.5
166 Ai: 4 Gen: 2
167 Sim Starting
168 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 275.95
169 Ai: 5 Gen: 2
170 Sim Starting
171 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 528.2000000000002
172 Ai: 6 Gen: 2
173 Sim Starting
174 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 190.5
175 Ai: 7 Gen: 2
176 Sim Starting
177 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 317.5999999999997
178 Ai: 8 Gen: 2
179 Sim Starting
180 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 334.8
181 Ai: 9 Gen: 2
182 Sim Starting
183 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 407.5000000000006
184 Ai: 10 Gen: 2
185 Sim Starting
186 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 317.4
187 Ai: 11 Gen: 2
188 Sim Starting
189 Sim over Total pop = 0 Tick Complete = 770 Fitness
    = 240.0
190 Ai: 12 Gen: 2
191 Sim Starting
192 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 339.0
193 Ai: 13 Gen: 2
194 Sim Starting
195 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 241.4999999999966
196 Ai: 14 Gen: 2
197 Sim Starting
```

```
198 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = 282.5
199 Ai: 15 Gen: 2
200 Sim Starting
201 Sim over Total pop = 0 Tick Complete = 2409
    Fitness = 432.20000000000147
202 Ai: 16 Gen: 2
203 Sim Starting
204 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 384.8499999999999
205 Ai: 17 Gen: 2
206 Sim Starting
207 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = 387.74999999999795
208 Ai: 18 Gen: 2
209 Sim Starting
210 Sim over Total pop = 0 Tick Complete = 3586
    Fitness = 169.5499999999882
211 Ai: 19 Gen: 2
212 Sim Starting
213 Sim over Total pop = 0 Tick Complete = 1815
    Fitness = 406.5000000000037
214 Ai: 20 Gen: 2
215 Sim Starting
216 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 485.199999999998
217 Ai: 21 Gen: 2
218 Sim Starting
219 Sim over Total pop = 0 Tick Complete = 605 Fitness
    = 155.5
220 Ai: 22 Gen: 2
221 Sim Starting
222 Sim over Total pop = 0 Tick Complete = 693 Fitness
    = 304.35
223 Ai: 23 Gen: 2
224 Sim Starting
225 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 684.549999999984
226 Ai: 24 Gen: 2
227 Sim Starting
228 Sim over Total pop = 0 Tick Complete = 9933
    Fitness = 1168.299999999734
229 Ai: 25 Gen: 2
230 Sim Starting
```

```
231 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 317.0
232 Ai: 26 Gen: 2
233 Sim Starting
234 Sim over Total pop = 0 Tick Complete = 5753
    Fitness = 1098.5499999999886
235 Ai: 27 Gen: 2
236 Sim Starting
237 Sim over Total pop = 0 Tick Complete = 11858
    Fitness = 1684.4000000000574
238 Ai: 28 Gen: 2
239 Sim Starting
240 Sim over Total pop = 0 Tick Complete = 693 Fitness
    = 140.849999999999
241 Ai: 29 Gen: 2
242 Sim Starting
243 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = -128.3
244 Ai: 30 Gen: 2
245 Sim Starting
246 Sim over Total pop = 0 Tick Complete = 5313
    Fitness = 419.4000000000003
247 Ai: 31 Gen: 2
248 Sim Starting
249 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 430.0500000000007
250 Ai: 32 Gen: 2
251 Sim Starting
252 Sim over Total pop = 0 Tick Complete = 2618
    Fitness = 302.5999999999997
253 Ai: 33 Gen: 2
254 Sim Starting
255 Sim over Total pop = 0 Tick Complete = 715 Fitness
    = 247.2499999999994
256 Ai: 34 Gen: 2
257 Sim Starting
258 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 657.6000000000033
259 Ai: 35 Gen: 2
260 Sim Starting
261 Sim over Total pop = 0 Tick Complete = 2717
    Fitness = 307.7499999999795
262 Ai: 36 Gen: 2
263 Sim Starting
```

```
264 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = 137.6499999999998
265 Ai: 37 Gen: 2
266 Sim Starting
267 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 387.1500000000031
268 Ai: 38 Gen: 2
269 Sim Starting
270 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 71.9000000000005
271 Ai: 39 Gen: 2
272 Sim Starting
273 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 229.6500000000009
274 Ai: 40 Gen: 2
275 Sim Starting
276 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2119.850000000133
277 Ai: 41 Gen: 2
278 Sim Starting
279 Sim over Total pop = 0 Tick Complete = 2098
    Fitness = 391.1499999999986
280 Ai: 42 Gen: 2
281 Sim Starting
282 Sim over Total pop = 0 Tick Complete = 9713
    Fitness = 919.900000000133
283 Ai: 43 Gen: 2
284 Sim Starting
285 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = -29.74999999999986
286 Ai: 44 Gen: 2
287 Sim Starting
288 Sim over Total pop = 0 Tick Complete = 1793
    Fitness = -145.5
289 Ai: 45 Gen: 2
290 Sim Starting
291 Sim over Total pop = 0 Tick Complete = 3663
    Fitness = 424.5499999999575
292 Ai: 46 Gen: 2
293 Sim Starting
294 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 204.5999999999994
295 Ai: 47 Gen: 2
296 Sim Starting
```

```
297 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 486.5000000000001
298 Ai: 48 Gen: 2
299 Sim Starting
300 Sim over Total pop = 0 Tick Complete = 2090
    Fitness = 439.5999999999803
301 Ai: 49 Gen: 2
302 Sim Starting
303 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 416.8499999999997
304 Ai: 50 Gen: 2
305 Sim Starting
306 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 154.5
307 Ai: 0 Gen: 3
308 Sim Starting
309 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = -148.95
310 Ai: 1 Gen: 3
311 Sim Starting
312 Sim over Total pop = 0 Tick Complete = 561 Fitness
    = -179.45
313 Ai: 2 Gen: 3
314 Sim Starting
315 Sim over Total pop = 0 Tick Complete = 825 Fitness
    = 340.6500000000001
316 Ai: 3 Gen: 3
317 Sim Starting
318 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 262.0
319 Ai: 4 Gen: 3
320 Sim Starting
321 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 251.0
322 Ai: 5 Gen: 3
323 Sim Starting
324 Sim over Total pop = 0 Tick Complete = 924 Fitness
    = 288.5
325 Ai: 6 Gen: 3
326 Sim Starting
327 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 337.0500000000007
328 Ai: 7 Gen: 3
329 Sim Starting
```

```
330 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 251.0
331 Ai: 8 Gen: 3
332 Sim Starting
333 Sim over Total pop = 0 Tick Complete = 715 Fitness
    = 141.85000000000002
334 Ai: 9 Gen: 3
335 Sim Starting
336 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 420.2000000000095
337 Ai: 10 Gen: 3
338 Sim Starting
339 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 529.999999999997
340 Ai: 11 Gen: 3
341 Sim Starting
342 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 322.5
343 Ai: 12 Gen: 3
344 Sim Starting
345 Sim over Total pop = 0 Tick Complete = 5610
    Fitness = 849.050000000106
346 Ai: 13 Gen: 3
347 Sim Starting
348 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 289.5
349 Ai: 14 Gen: 3
350 Sim Starting
351 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 448.799999999998
352 Ai: 15 Gen: 3
353 Sim Starting
354 Sim over Total pop = 0 Tick Complete = 3322
    Fitness = 89.199999999983
355 Ai: 16 Gen: 3
356 Sim Starting
357 Sim over Total pop = 0 Tick Complete = 968 Fitness
    = -90.300000000004
358 Ai: 17 Gen: 3
359 Sim Starting
360 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 271.4000000000003
361 Ai: 18 Gen: 3
362 Sim Starting
```

```
363 Sim over Total pop = 0 Tick Complete = 649 Fitness
      = 340.0
364 Ai: 19 Gen: 3
365 Sim Starting
366 Sim over Total pop = 0 Tick Complete = 1672
      Fitness = 319.05000000000007
367 Ai: 20 Gen: 3
368 Sim Starting
369 Sim over Total pop = 0 Tick Complete = 924 Fitness
      = 179.1499999999998
370 Ai: 21 Gen: 3
371 Sim Starting
372 Sim over Total pop = 0 Tick Complete = 7733
      Fitness = 906.1000000000248
373 Ai: 22 Gen: 3
374 Sim Starting
375 Sim over Total pop = 0 Tick Complete = 693 Fitness
      = 349.749999999998
376 Ai: 23 Gen: 3
377 Sim Starting
378 Sim over Total pop = 0 Tick Complete = 638 Fitness
      = 208.0
379 Ai: 24 Gen: 3
380 Sim Starting
381 Sim over Total pop = 0 Tick Complete = 979 Fitness
      = 326.1999999999993
382 Ai: 25 Gen: 3
383 Sim Starting
384 Sim over Total pop = 0 Tick Complete = 671 Fitness
      = 222.3000000000007
385 Ai: 26 Gen: 3
386 Sim Starting
387 Sim over Total pop = 0 Tick Complete = 1199
      Fitness = 388.6500000000001
388 Ai: 27 Gen: 3
389 Sim Starting
390 Sim over Total pop = 0 Tick Complete = 1265
      Fitness = 381.6500000000003
391 Ai: 28 Gen: 3
392 Sim Starting
393 Sim over Total pop = 0 Tick Complete = 649 Fitness
      = 250.5
394 Ai: 29 Gen: 3
395 Sim Starting
```

```
396 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 284.0
397 Ai: 30 Gen: 3
398 Sim Starting
399 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 135.80000000000013
400 Ai: 31 Gen: 3
401 Sim Starting
402 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 201.85000000000008
403 Ai: 32 Gen: 3
404 Sim Starting
405 Sim over Total pop = 0 Tick Complete = 671 Fitness
    = -60.5
406 Ai: 33 Gen: 3
407 Sim Starting
408 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 518.399999999999
409 Ai: 34 Gen: 3
410 Sim Starting
411 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 197.450000000001
412 Ai: 35 Gen: 3
413 Sim Starting
414 Sim over Total pop = 0 Tick Complete = 13563
    Fitness = 911.100000000263
415 Ai: 36 Gen: 3
416 Sim Starting
417 Sim over Total pop = 0 Tick Complete = 5852
    Fitness = 396.099999999953
418 Ai: 37 Gen: 3
419 Sim Starting
420 Sim over Total pop = 0 Tick Complete = 8613
    Fitness = 497.5
421 Ai: 38 Gen: 3
422 Sim Starting
423 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 284.0
424 Ai: 39 Gen: 3
425 Sim Starting
426 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 502.1500000000001
427 Ai: 40 Gen: 3
428 Sim Starting
```

```
429 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = 150.5
430 Ai: 41 Gen: 3
431 Sim Starting
432 Sim over Total pop = 0 Tick Complete = 957 Fitness
    = -108.1999999999992
433 Ai: 42 Gen: 3
434 Sim Starting
435 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 391.3500000000001
436 Ai: 43 Gen: 3
437 Sim Starting
438 Sim over Total pop = 0 Tick Complete = 682 Fitness
    = -119.2
439 Ai: 44 Gen: 3
440 Sim Starting
441 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 254.7999999999876
442 Ai: 45 Gen: 3
443 Sim Starting
444 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 417.5499999999984
445 Ai: 46 Gen: 3
446 Sim Starting
447 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 289.5
448 Ai: 47 Gen: 3
449 Sim Starting
450 Sim over Total pop = 0 Tick Complete = 2563
    Fitness = 438.899999999994
451 Ai: 48 Gen: 3
452 Sim Starting
453 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 144.8500000000002
454 Ai: 49 Gen: 3
455 Sim Starting
456 Sim over Total pop = 0 Tick Complete = 847 Fitness
    = 237.699999999993
457 Ai: 50 Gen: 3
458 Sim Starting
459 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 419.10000000000014
460 Ai: 51 Gen: 3
461 Sim Starting
```

```
462 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 553.999999999999
463 Ai: 0 Gen: 4
464 Sim Starting
465 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 358.8500000000005
466 Ai: 1 Gen: 4
467 Sim Starting
468 Sim over Total pop = 0 Tick Complete = 616 Fitness
    = -164.1000000000002
469 Ai: 2 Gen: 4
470 Sim Starting
471 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 553.599999999949
472 Ai: 3 Gen: 4
473 Sim Starting
474 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 461.7500000000011
475 Ai: 4 Gen: 4
476 Sim Starting
477 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 97.25
478 Ai: 5 Gen: 4
479 Sim Starting
480 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 144.0500000000007
481 Ai: 6 Gen: 4
482 Sim Starting
483 Sim over Total pop = 0 Tick Complete = 858 Fitness
    = 263.5
484 Ai: 7 Gen: 4
485 Sim Starting
486 Sim over Total pop = 0 Tick Complete = 869 Fitness
    = 314.35
487 Ai: 8 Gen: 4
488 Sim Starting
489 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 195.6500000000001
490 Ai: 9 Gen: 4
491 Sim Starting
492 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 874.2000000000006
493 Ai: 10 Gen: 4
494 Sim Starting
```

```
495 Sim over Total pop = 0 Tick Complete = 2387
    Fitness = 430.20000000000005
496 Ai: 11 Gen: 4
497 Sim Starting
498 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 444.0
499 Ai: 12 Gen: 4
500 Sim Starting
501 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = -152.3
502 Ai: 13 Gen: 4
503 Sim Starting
504 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 284.0
505 Ai: 14 Gen: 4
506 Sim Starting
507 Sim over Total pop = 0 Tick Complete = 792 Fitness
    = 57.70000000000045
508 Ai: 15 Gen: 4
509 Sim Starting
510 Sim over Total pop = 0 Tick Complete = 3355
    Fitness = 285.1000000000036
511 Ai: 16 Gen: 4
512 Sim Starting
513 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 452.55000000000007
514 Ai: 17 Gen: 4
515 Sim Starting
516 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = 312.25
517 Ai: 18 Gen: 4
518 Sim Starting
519 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 322.5
520 Ai: 19 Gen: 4
521 Sim Starting
522 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 223.5
523 Ai: 20 Gen: 4
524 Sim Starting
525 Sim over Total pop = 0 Tick Complete = 803 Fitness
    = 430.55000000000007
526 Ai: 21 Gen: 4
527 Sim Starting
```

```
528 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 262.24999999999997
529 Ai: 22 Gen: 4
530 Sim Starting
531 Sim over Total pop = 0 Tick Complete = 2871
    Fitness = 599.7500000000016
532 Ai: 23 Gen: 4
533 Sim Starting
534 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = 157.5
535 Ai: 24 Gen: 4
536 Sim Starting
537 Sim over Total pop = 0 Tick Complete = 2354
    Fitness = 476.15
538 Ai: 25 Gen: 4
539 Sim Starting
540 Sim over Total pop = 0 Tick Complete = 682 Fitness
    = 261.75
541 Ai: 26 Gen: 4
542 Sim Starting
543 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 256.5
544 Ai: 27 Gen: 4
545 Sim Starting
546 Sim over Total pop = 0 Tick Complete = 781 Fitness
    = 285.25
547 Ai: 28 Gen: 4
548 Sim Starting
549 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 245.5
550 Ai: 29 Gen: 4
551 Sim Starting
552 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = 311.5
553 Ai: 30 Gen: 4
554 Sim Starting
555 Sim over Total pop = 0 Tick Complete = 3355
    Fitness = 393.5000000000057
556 Ai: 31 Gen: 4
557 Sim Starting
558 Sim over Total pop = 0 Tick Complete = 3102
    Fitness = 27.599999999999994
559 Ai: 32 Gen: 4
560 Sim Starting
```

```
561 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 186.70000000000172
562 Ai: 33 Gen: 4
563 Sim Starting
564 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 218.0
565 Ai: 34 Gen: 4
566 Sim Starting
567 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 385.1999999999936
568 Ai: 35 Gen: 4
569 Sim Starting
570 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 342.4999999999903
571 Ai: 36 Gen: 4
572 Sim Starting
573 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 256.5
574 Ai: 37 Gen: 4
575 Sim Starting
576 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 336.4000000000015
577 Ai: 38 Gen: 4
578 Sim Starting
579 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 394.2999999999988
580 Ai: 39 Gen: 4
581 Sim Starting
582 Sim over Total pop = 0 Tick Complete = 792 Fitness
    = 252.0
583 Ai: 40 Gen: 4
584 Sim Starting
585 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 271.2500000000006
586 Ai: 41 Gen: 4
587 Sim Starting
588 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = 127.0
589 Ai: 42 Gen: 4
590 Sim Starting
591 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 245.5
592 Ai: 43 Gen: 4
593 Sim Starting
```

```
594 Sim over Total pop = 0 Tick Complete = 9097
  Fitness = 601.849999999989
595 Ai: 44 Gen: 4
596 Sim Starting
597 Sim over Total pop = 0 Tick Complete = 605 Fitness
  = 136.8999999999998
598 Ai: 45 Gen: 4
599 Sim Starting
600 Sim over Total pop = 0 Tick Complete = 2112
  Fitness = 516.049999999965
601 Ai: 46 Gen: 4
602 Sim Starting
603 Sim over Total pop = 0 Tick Complete = 8415
  Fitness = 1451.749999999968
604 Ai: 47 Gen: 4
605 Sim Starting
606 Sim over Total pop = 0 Tick Complete = 4015
  Fitness = 679.0
607 Ai: 48 Gen: 4
608 Sim Starting
609 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 311.5
610 Ai: 49 Gen: 4
611 Sim Starting
612 Sim over Total pop = 0 Tick Complete = 3487
  Fitness = 26.7000000000038
613 Ai: 50 Gen: 4
614 Sim Starting
615 Sim over Total pop = 0 Tick Complete = 1518
  Fitness = 471.74999999999
616 Ai: 51 Gen: 4
617 Sim Starting
618 Sim over Total pop = 0 Tick Complete = 6831
  Fitness = 619.499999999935
619 Ai: 52 Gen: 4
620 Sim Starting
621 Sim over Total pop = 0 Tick Complete = 12892
  Fitness = 614.6500000000001
622 Ai: 0 Gen: 5
623 Sim Starting
624 Sim over Total pop = 0 Tick Complete = 1683
  Fitness = 412.449999999999
625 Ai: 1 Gen: 5
626 Sim Starting
```

```
627 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 487.64999999999884
628 Ai: 2 Gen: 5
629 Sim Starting
630 Sim over Total pop = 0 Tick Complete = 968 Fitness
    = 222.8999999999998
631 Ai: 3 Gen: 5
632 Sim Starting
633 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 489.0499999999986
634 Ai: 4 Gen: 5
635 Sim Starting
636 Sim over Total pop = 0 Tick Complete = 682 Fitness
    = 293.0
637 Ai: 5 Gen: 5
638 Sim Starting
639 Sim over Total pop = 0 Tick Complete = 792 Fitness
    = 386.9499999999936
640 Ai: 6 Gen: 5
641 Sim Starting
642 Sim over Total pop = 0 Tick Complete = 627 Fitness
    = -174.65000000000003
643 Ai: 7 Gen: 5
644 Sim Starting
645 Sim over Total pop = 0 Tick Complete = 605 Fitness
    = -175.55
646 Ai: 8 Gen: 5
647 Sim Starting
648 Sim over Total pop = 0 Tick Complete = 3894
    Fitness = 590.9499999999977
649 Ai: 9 Gen: 5
650 Sim Starting
651 Sim over Total pop = 0 Tick Complete = 572 Fitness
    = -142.0
652 Ai: 10 Gen: 5
653 Sim Starting
654 Sim over Total pop = 0 Tick Complete = 3905
    Fitness = 292.500000000001
655 Ai: 11 Gen: 5
656 Sim Starting
657 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 313.5499999999998
658 Ai: 12 Gen: 5
659 Sim Starting
```

```
660 Sim over Total pop = 0 Tick Complete = 572 Fitness
    = 132.0
661 Ai: 13 Gen: 5
662 Sim Starting
663 Sim over Total pop = 0 Tick Complete = 3619
    Fitness = 688.800000000005
664 Ai: 14 Gen: 5
665 Sim Starting
666 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 256.5
667 Ai: 15 Gen: 5
668 Sim Starting
669 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 323.5
670 Ai: 16 Gen: 5
671 Sim Starting
672 Sim over Total pop = 0 Tick Complete = 5445
    Fitness = 565.799999999995
673 Ai: 17 Gen: 5
674 Sim Starting
675 Sim over Total pop = 0 Tick Complete = 891 Fitness
    = 438.0
676 Ai: 18 Gen: 5
677 Sim Starting
678 Sim over Total pop = 0 Tick Complete = 770 Fitness
    = 298.5000000000006
679 Ai: 19 Gen: 5
680 Sim Starting
681 Sim over Total pop = 0 Tick Complete = 759 Fitness
    = 233.0
682 Ai: 20 Gen: 5
683 Sim Starting
684 Sim over Total pop = 0 Tick Complete = 858 Fitness
    = 290.75
685 Ai: 21 Gen: 5
686 Sim Starting
687 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 522.449999999999
688 Ai: 22 Gen: 5
689 Sim Starting
690 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 262.0
691 Ai: 23 Gen: 5
692 Sim Starting
```

```
693 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 223.5
694 Ai: 24 Gen: 5
695 Sim Starting
696 Sim over Total pop = 0 Tick Complete = 605 Fitness
    = 96.5
697 Ai: 25 Gen: 5
698 Sim Starting
699 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 223.5
700 Ai: 26 Gen: 5
701 Sim Starting
702 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = 245.0
703 Ai: 27 Gen: 5
704 Sim Starting
705 Sim over Total pop = 0 Tick Complete = 748 Fitness
    = 247.10000000000002
706 Ai: 28 Gen: 5
707 Sim Starting
708 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 545.7499999999952
709 Ai: 29 Gen: 5
710 Sim Starting
711 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 262.0
712 Ai: 30 Gen: 5
713 Sim Starting
714 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 595.9
715 Ai: 31 Gen: 5
716 Sim Starting
717 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 249.95000000000016
718 Ai: 32 Gen: 5
719 Sim Starting
720 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 401.94999999999897
721 Ai: 33 Gen: 5
722 Sim Starting
723 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 518.4500000000004
724 Ai: 34 Gen: 5
725 Sim Starting
```

```
726 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 186.10000000000002
727 Ai: 35 Gen: 5
728 Sim Starting
729 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 305.3499999999985
730 Ai: 36 Gen: 5
731 Sim Starting
732 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 630.499999999983
733 Ai: 37 Gen: 5
734 Sim Starting
735 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 381.899999999999
736 Ai: 38 Gen: 5
737 Sim Starting
738 Sim over Total pop = 0 Tick Complete = 825 Fitness
    = 326.5
739 Ai: 39 Gen: 5
740 Sim Starting
741 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 98.0500000000003
742 Ai: 40 Gen: 5
743 Sim Starting
744 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 491.65000000000146
745 Ai: 41 Gen: 5
746 Sim Starting
747 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 69.0499999999998
748 Ai: 42 Gen: 5
749 Sim Starting
750 Sim over Total pop = 0 Tick Complete = 781 Fitness
    = 132.4499999999996
751 Ai: 43 Gen: 5
752 Sim Starting
753 Sim over Total pop = 0 Tick Complete = 4235
    Fitness = 535.7000000000012
754 Ai: 44 Gen: 5
755 Sim Starting
756 Sim over Total pop = 0 Tick Complete = 9966
    Fitness = 745.6
757 Ai: 45 Gen: 5
758 Sim Starting
```

```
759 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 1183.5000000000084
760 Ai: 46 Gen: 5
761 Sim Starting
762 Sim over Total pop = 0 Tick Complete = 748 Fitness
    = 265.8
763 Ai: 47 Gen: 5
764 Sim Starting
765 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 411.35
766 Ai: 48 Gen: 5
767 Sim Starting
768 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 239.1500000000002
769 Ai: 49 Gen: 5
770 Sim Starting
771 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 362.0
772 Ai: 50 Gen: 5
773 Sim Starting
774 Sim over Total pop = 0 Tick Complete = 3333
    Fitness = 657.5500000000046
775 Ai: 51 Gen: 5
776 Sim Starting
777 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 371.0999999999866
778 Ai: 52 Gen: 5
779 Sim Starting
780 Sim over Total pop = 0 Tick Complete = 2420
    Fitness = 862.5499999999961
781 Ai: 0 Gen: 6
782 Sim Starting
783 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = -160.5999999999997
784 Ai: 1 Gen: 6
785 Sim Starting
786 Sim over Total pop = 0 Tick Complete = 572 Fitness
    = -170.05
787 Ai: 2 Gen: 6
788 Sim Starting
789 Sim over Total pop = 0 Tick Complete = 5038
    Fitness = 571.8500000000085
790 Ai: 3 Gen: 6
791 Sim Starting
```

```
792 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 361.0
793 Ai: 4 Gen: 6
794 Sim Starting
795 Sim over Total pop = 0 Tick Complete = 748 Fitness
    = 384.0
796 Ai: 5 Gen: 6
797 Sim Starting
798 Sim over Total pop = 0 Tick Complete = 5687
    Fitness = 161.1999999999997
799 Ai: 6 Gen: 6
800 Sim Starting
801 Sim over Total pop = 0 Tick Complete = 781 Fitness
    = 388.55000000000007
802 Ai: 7 Gen: 6
803 Sim Starting
804 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 320.9000000000007
805 Ai: 8 Gen: 6
806 Sim Starting
807 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 335.6499999999895
808 Ai: 9 Gen: 6
809 Sim Starting
810 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 460.0999999999934
811 Ai: 10 Gen: 6
812 Sim Starting
813 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 372.5
814 Ai: 11 Gen: 6
815 Sim Starting
816 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 497.7000000000107
817 Ai: 12 Gen: 6
818 Sim Starting
819 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 506.3500000000005
820 Ai: 13 Gen: 6
821 Sim Starting
822 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 864.0000000000006
823 Ai: 14 Gen: 6
824 Sim Starting
```

```
825 Sim over Total pop = 0 Tick Complete = 957 Fitness
    = 366.4
826 Ai: 15 Gen: 6
827 Sim Starting
828 Sim over Total pop = 0 Tick Complete = 814 Fitness
    = 263.0499999999995
829 Ai: 16 Gen: 6
830 Sim Starting
831 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 730.3499999999984
832 Ai: 17 Gen: 6
833 Sim Starting
834 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 1023.649999999992
835 Ai: 18 Gen: 6
836 Sim Starting
837 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 256.5
838 Ai: 19 Gen: 6
839 Sim Starting
840 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 251.0999999999962
841 Ai: 20 Gen: 6
842 Sim Starting
843 Sim over Total pop = 0 Tick Complete = 715 Fitness
    = 367.4
844 Ai: 21 Gen: 6
845 Sim Starting
846 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 339.0
847 Ai: 22 Gen: 6
848 Sim Starting
849 Sim over Total pop = 0 Tick Complete = 803 Fitness
    = 205.399999999998
850 Ai: 23 Gen: 6
851 Sim Starting
852 Sim over Total pop = 0 Tick Complete = 5258
    Fitness = 300.449999999992
853 Ai: 24 Gen: 6
854 Sim Starting
855 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 212.5499999999956
856 Ai: 25 Gen: 6
857 Sim Starting
```

```
858 Sim over Total pop = 0 Tick Complete = 1045
  Fitness = 618.25
859 Ai: 26 Gen: 6
860 Sim Starting
861 Sim over Total pop = 0 Tick Complete = 1463
  Fitness = 558.2
862 Ai: 27 Gen: 6
863 Sim Starting
864 Sim over Total pop = 0 Tick Complete = 1903
  Fitness = 74.94999999999999
865 Ai: 28 Gen: 6
866 Sim Starting
867 Sim over Total pop = 0 Tick Complete = 1045
  Fitness = 227.5499999999999
868 Ai: 29 Gen: 6
869 Sim Starting
870 Sim over Total pop = 0 Tick Complete = 1210
  Fitness = -135.4999999999963
871 Ai: 30 Gen: 6
872 Sim Starting
873 Sim over Total pop = 0 Tick Complete = 3685
  Fitness = 840.24999999996
874 Ai: 31 Gen: 6
875 Sim Starting
876 Sim over Total pop = 0 Tick Complete = 2970
  Fitness = 790.799999999938
877 Ai: 32 Gen: 6
878 Sim Starting
879 Sim over Total pop = 0 Tick Complete = 14509
  Fitness = 1247.8000000000206
880 Ai: 33 Gen: 6
881 Sim Starting
882 Sim over Total pop = 0 Tick Complete = 1584
  Fitness = 425.0000000000017
883 Ai: 34 Gen: 6
884 Sim Starting
885 Sim over Total pop = 0 Tick Complete = 10219
  Fitness = 635.8000000000001
886 Ai: 35 Gen: 6
887 Sim Starting
888 Sim over Total pop = 0 Tick Complete = 968 Fitness
  = 176.25
889 Ai: 36 Gen: 6
890 Sim Starting
```

```
891 Sim over Total pop = 0 Tick Complete = 957 Fitness
    = 156.5
892 Ai: 37 Gen: 6
893 Sim Starting
894 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1032.4500000000003
895 Ai: 38 Gen: 6
896 Sim Starting
897 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1443.949999999575
898 Ai: 39 Gen: 6
899 Sim Starting
900 Sim over Total pop = 0 Tick Complete = 5373
    Fitness = 443.4499999999874
901 Ai: 40 Gen: 6
902 Sim Starting
903 Sim over Total pop = 0 Tick Complete = 616 Fitness
    = -114.0500000000001
904 Ai: 41 Gen: 6
905 Sim Starting
906 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 479.7500000000001
907 Ai: 42 Gen: 6
908 Sim Starting
909 Sim over Total pop = 0 Tick Complete = 5511
    Fitness = 707.7500000000007
910 Ai: 43 Gen: 6
911 Sim Starting
912 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 762.599999999977
913 Ai: 44 Gen: 6
914 Sim Starting
915 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 167.0
916 Ai: 45 Gen: 6
917 Sim Starting
918 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 223.5
919 Ai: 46 Gen: 6
920 Sim Starting
921 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 446.4000000000009
922 Ai: 47 Gen: 6
923 Sim Starting
```

```
924 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 251.0
925 Ai: 48 Gen: 6
926 Sim Starting
927 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 360.9
928 Ai: 0 Gen: 7
929 Sim Starting
930 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = -155.74999999999997
931 Ai: 1 Gen: 7
932 Sim Starting
933 Sim over Total pop = 0 Tick Complete = 561 Fitness
    = -181.55
934 Ai: 2 Gen: 7
935 Sim Starting
936 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 176.25000000000034
937 Ai: 3 Gen: 7
938 Sim Starting
939 Sim over Total pop = 0 Tick Complete = 4873
    Fitness = 315.2499999999998
940 Ai: 4 Gen: 7
941 Sim Starting
942 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 257.5
943 Ai: 5 Gen: 7
944 Sim Starting
945 Sim over Total pop = 0 Tick Complete = 913 Fitness
    = 468.85000000000014
946 Ai: 6 Gen: 7
947 Sim Starting
948 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 400.85
949 Ai: 7 Gen: 7
950 Sim Starting
951 Sim over Total pop = 0 Tick Complete = 7029
    Fitness = 575.6999999999964
952 Ai: 8 Gen: 7
953 Sim Starting
954 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 539.8499999999999
955 Ai: 9 Gen: 7
956 Sim Starting
```

```
957 Sim over Total pop = 0 Tick Complete = 2618
  Fitness = 805.5999999999996
958 Ai: 10 Gen: 7
959 Sim Starting
960 Sim over Total pop = 0 Tick Complete = 2596
  Fitness = 685.999999999999
961 Ai: 11 Gen: 7
962 Sim Starting
963 Sim over Total pop = 0 Tick Complete = 1188
  Fitness = 126.8499999999996
964 Ai: 12 Gen: 7
965 Sim Starting
966 Sim over Total pop = 0 Tick Complete = 1232
  Fitness = 273.4
967 Ai: 13 Gen: 7
968 Sim Starting
969 Sim over Total pop = 0 Tick Complete = 1562
  Fitness = 333.6000000000014
970 Ai: 14 Gen: 7
971 Sim Starting
972 Sim over Total pop = 0 Tick Complete = 2838
  Fitness = 556.199999999994
973 Ai: 15 Gen: 7
974 Sim Starting
975 Sim over Total pop = 0 Tick Complete = 660
  Fitness = 96.75
976 Ai: 16 Gen: 7
977 Sim Starting
978 Sim over Total pop = 0 Tick Complete = 858
  Fitness = 425.0000000000045
979 Ai: 17 Gen: 7
980 Sim Starting
981 Sim over Total pop = 0 Tick Complete = 781
  Fitness = 334.299999999995
982 Ai: 18 Gen: 7
983 Sim Starting
984 Sim over Total pop = 0 Tick Complete = 1265
  Fitness = 518.299999999982
985 Ai: 19 Gen: 7
986 Sim Starting
987 Sim over Total pop = 0 Tick Complete = 1793
  Fitness = 1099.5000000000068
988 Ai: 20 Gen: 7
989 Sim Starting
```

```
990 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -183.54999999999998
991 Ai: 21 Gen: 7
992 Sim Starting
993 Sim over Total pop = 0 Tick Complete = 858
    Fitness = -140.5
994 Ai: 22 Gen: 7
995 Sim Starting
996 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -140.05
997 Ai: 23 Gen: 7
998 Sim Starting
999 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 612.2500000000031
1000 Ai: 24 Gen: 7
1001 Sim Starting
1002 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 200.2999999999995
1003 Ai: 25 Gen: 7
1004 Sim Starting
1005 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 212.5
1006 Ai: 26 Gen: 7
1007 Sim Starting
1008 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 154.0999999999998
1009 Ai: 27 Gen: 7
1010 Sim Starting
1011 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 586.3000000000001
1012 Ai: 28 Gen: 7
1013 Sim Starting
1014 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
1015 Ai: 29 Gen: 7
1016 Sim Starting
1017 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 392.9
1018 Ai: 30 Gen: 7
1019 Sim Starting
1020 Sim over Total pop = 0 Tick Complete = 10714
    Fitness = 723.1000000000004
1021 Ai: 31 Gen: 7
1022 Sim Starting
```

```
1023 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = 551.9000000000002
1024 Ai: 32 Gen: 7
1025 Sim Starting
1026 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 440.6000000000167
1027 Ai: 33 Gen: 7
1028 Sim Starting
1029 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 209.9499999999982
1030 Ai: 34 Gen: 7
1031 Sim Starting
1032 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 478.8999999999992
1033 Ai: 35 Gen: 7
1034 Sim Starting
1035 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 237.7999999999995
1036 Ai: 36 Gen: 7
1037 Sim Starting
1038 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 285.0
1039 Ai: 37 Gen: 7
1040 Sim Starting
1041 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 281.0
1042 Ai: 38 Gen: 7
1043 Sim Starting
1044 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -168.6499999999998
1045 Ai: 39 Gen: 7
1046 Sim Starting
1047 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 140.5
1048 Ai: 40 Gen: 7
1049 Sim Starting
1050 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 201.0
1051 Ai: 41 Gen: 7
1052 Sim Starting
1053 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 390.6500000000006
1054 Ai: 42 Gen: 7
1055 Sim Starting
```

```
1056 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 158.25
1057 Ai: 43 Gen: 7
1058 Sim Starting
1059 Sim over Total pop = 0 Tick Complete = 3905
    Fitness = -39.49999999999994
1060 Ai: 44 Gen: 7
1061 Sim Starting
1062 Sim over Total pop = 0 Tick Complete = 4818
    Fitness = 648.3500000000095
1063 Ai: 45 Gen: 7
1064 Sim Starting
1065 Sim over Total pop = 0 Tick Complete = 9669
    Fitness = 586.400000000001
1066 Ai: 46 Gen: 7
1067 Sim Starting
1068 Sim over Total pop = 0 Tick Complete = 3146
    Fitness = 781.699999999982
1069 Ai: 47 Gen: 7
1070 Sim Starting
1071 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 416.0
1072 Ai: 48 Gen: 7
1073 Sim Starting
1074 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 167.1499999999975
1075 Ai: 49 Gen: 7
1076 Sim Starting
1077 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 240.0
1078 Ai: 50 Gen: 7
1079 Sim Starting
1080 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 1075.300000000014
1081 Ai: 51 Gen: 7
1082 Sim Starting
1083 Sim over Total pop = 0 Tick Complete = 4356
    Fitness = 301.0
1084 Ai: 52 Gen: 7
1085 Sim Starting
1086 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 156.6499999999998
1087 Ai: 53 Gen: 7
1088 Sim Starting
```

```
1089 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 109.5499999999999
1090 Ai: 54 Gen: 7
1091 Sim Starting
1092 Sim over Total pop = 0 Tick Complete = 6633
    Fitness = 184.4500000000018
1093 Ai: 0 Gen: 8
1094 Sim Starting
1095 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -174.7499999999997
1096 Ai: 1 Gen: 8
1097 Sim Starting
1098 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -158.2000000000005
1099 Ai: 2 Gen: 8
1100 Sim Starting
1101 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -138.75
1102 Ai: 3 Gen: 8
1103 Sim Starting
1104 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 185.5000000000023
1105 Ai: 4 Gen: 8
1106 Sim Starting
1107 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 284.0000000000001
1108 Ai: 5 Gen: 8
1109 Sim Starting
1110 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 284.0
1111 Ai: 6 Gen: 8
1112 Sim Starting
1113 Sim over Total pop = 0 Tick Complete = 2618
    Fitness = 365.25
1114 Ai: 7 Gen: 8
1115 Sim Starting
1116 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 289.5
1117 Ai: 8 Gen: 8
1118 Sim Starting
1119 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 327.5
1120 Ai: 9 Gen: 8
1121 Sim Starting
```

```
1122 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 341.69999999999993
1123 Ai: 10 Gen: 8
1124 Sim Starting
1125 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 293.1500000000001
1126 Ai: 11 Gen: 8
1127 Sim Starting
1128 Sim over Total pop = 0 Tick Complete = 4686
    Fitness = 463.9
1129 Ai: 12 Gen: 8
1130 Sim Starting
1131 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 132.25
1132 Ai: 13 Gen: 8
1133 Sim Starting
1134 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 222.4499999999993
1135 Ai: 14 Gen: 8
1136 Sim Starting
1137 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 453.35000000000093
1138 Ai: 15 Gen: 8
1139 Sim Starting
1140 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = -70.75000000000013
1141 Ai: 16 Gen: 8
1142 Sim Starting
1143 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 137.9000000000001
1144 Ai: 17 Gen: 8
1145 Sim Starting
1146 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 238.35000000000036
1147 Ai: 18 Gen: 8
1148 Sim Starting
1149 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 429.5999999999999
1150 Ai: 19 Gen: 8
1151 Sim Starting
1152 Sim over Total pop = 0 Tick Complete = 3553
    Fitness = 573.90000000000041
1153 Ai: 20 Gen: 8
1154 Sim Starting
```

```
1155 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -186.8
1156 Ai: 21 Gen: 8
1157 Sim Starting
1158 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = -100.99999999999997
1159 Ai: 22 Gen: 8
1160 Sim Starting
1161 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 755.849999999999
1162 Ai: 23 Gen: 8
1163 Sim Starting
1164 Sim over Total pop = 0 Tick Complete = 3839
    Fitness = 99.85
1165 Ai: 24 Gen: 8
1166 Sim Starting
1167 Sim over Total pop = 0 Tick Complete = 737
    Fitness = -102.60000000000005
1168 Ai: 25 Gen: 8
1169 Sim Starting
1170 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 466.9
1171 Ai: 26 Gen: 8
1172 Sim Starting
1173 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 191.0
1174 Ai: 27 Gen: 8
1175 Sim Starting
1176 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 289.0
1177 Ai: 28 Gen: 8
1178 Sim Starting
1179 Sim over Total pop = 0 Tick Complete = 4983
    Fitness = 430.599999999958
1180 Ai: 29 Gen: 8
1181 Sim Starting
1182 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 293.4000000000003
1183 Ai: 30 Gen: 8
1184 Sim Starting
1185 Sim over Total pop = 0 Tick Complete = 2354
    Fitness = 1000.75
1186 Ai: 31 Gen: 8
1187 Sim Starting
```

```
1188 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 128.25
1189 Ai: 32 Gen: 8
1190 Sim Starting
1191 Sim over Total pop = 0 Tick Complete = 3102
    Fitness = 216.6499999999984
1192 Ai: 33 Gen: 8
1193 Sim Starting
1194 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 428.4500000000005
1195 Ai: 34 Gen: 8
1196 Sim Starting
1197 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 375.7999999999916
1198 Ai: 35 Gen: 8
1199 Sim Starting
1200 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 149.9500000000027
1201 Ai: 36 Gen: 8
1202 Sim Starting
1203 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 252.1999999999987
1204 Ai: 37 Gen: 8
1205 Sim Starting
1206 Sim over Total pop = 0 Tick Complete = 10450
    Fitness = 1180.7000000000057
1207 Ai: 38 Gen: 8
1208 Sim Starting
1209 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 201.0
1210 Ai: 39 Gen: 8
1211 Sim Starting
1212 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 388.5
1213 Ai: 40 Gen: 8
1214 Sim Starting
1215 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -101.5
1216 Ai: 41 Gen: 8
1217 Sim Starting
1218 Sim over Total pop = 0 Tick Complete = 2409
    Fitness = 901.0000000000069
1219 Ai: 42 Gen: 8
1220 Sim Starting
```

```
1221 Sim over Total pop = 0 Tick Complete = 2409
    Fitness = 554.8500000000034
1222 Ai: 43 Gen: 8
1223 Sim Starting
1224 Sim over Total pop = 0 Tick Complete = 979
    Fitness = -38.14999999999984
1225 Ai: 44 Gen: 8
1226 Sim Starting
1227 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 41.14999999999981
1228 Ai: 45 Gen: 8
1229 Sim Starting
1230 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 135.7499999999997
1231 Ai: 46 Gen: 8
1232 Sim Starting
1233 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 243.2000000000005
1234 Ai: 47 Gen: 8
1235 Sim Starting
1236 Sim over Total pop = 0 Tick Complete = 6842
    Fitness = 319.900000000024
1237 Ai: 48 Gen: 8
1238 Sim Starting
1239 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 702.600000000034
1240 Ai: 49 Gen: 8
1241 Sim Starting
1242 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 694.44999999999
1243 Ai: 50 Gen: 8
1244 Sim Starting
1245 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 761.44999999999
1246 Ai: 51 Gen: 8
1247 Sim Starting
1248 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 339.0
1249 Ai: 52 Gen: 8
1250 Sim Starting
1251 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
1252 Ai: 0 Gen: 9
1253 Sim Starting
```

```
1254 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -163.0
1255 Ai: 1 Gen: 9
1256 Sim Starting
1257 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -112.6499999999993
1258 Ai: 2 Gen: 9
1259 Sim Starting
1260 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 260.2000000000016
1261 Ai: 3 Gen: 9
1262 Sim Starting
1263 Sim over Total pop = 0 Tick Complete = 3828
    Fitness = 118.9499999999999
1264 Ai: 4 Gen: 9
1265 Sim Starting
1266 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 426.699999999997
1267 Ai: 5 Gen: 9
1268 Sim Starting
1269 Sim over Total pop = 0 Tick Complete = 9966
    Fitness = 538.299999999889
1270 Ai: 6 Gen: 9
1271 Sim Starting
1272 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 158.55
1273 Ai: 7 Gen: 9
1274 Sim Starting
1275 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 216.749999999955
1276 Ai: 8 Gen: 9
1277 Sim Starting
1278 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 275.699999999997
1279 Ai: 9 Gen: 9
1280 Sim Starting
1281 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
1282 Ai: 10 Gen: 9
1283 Sim Starting
1284 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 504.999999999999
1285 Ai: 11 Gen: 9
1286 Sim Starting
```

```
1287 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 190.0
1288 Ai: 12 Gen: 9
1289 Sim Starting
1290 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 192.0
1291 Ai: 13 Gen: 9
1292 Sim Starting
1293 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 126.35
1294 Ai: 14 Gen: 9
1295 Sim Starting
1296 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 240.5
1297 Ai: 15 Gen: 9
1298 Sim Starting
1299 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 160.8499999999999
1300 Ai: 16 Gen: 9
1301 Sim Starting
1302 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 510.0
1303 Ai: 17 Gen: 9
1304 Sim Starting
1305 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 465.6499999999991
1306 Ai: 18 Gen: 9
1307 Sim Starting
1308 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 93.35
1309 Ai: 19 Gen: 9
1310 Sim Starting
1311 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 329.8000000000007
1312 Ai: 20 Gen: 9
1313 Sim Starting
1314 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1315 Ai: 21 Gen: 9
1316 Sim Starting
1317 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -132.5
1318 Ai: 22 Gen: 9
1319 Sim Starting
```

```
1320 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 386.0
1321 Ai: 23 Gen: 9
1322 Sim Starting
1323 Sim over Total pop = 0 Tick Complete = 16566
    Fitness = 1054.7000000000207
1324 Ai: 24 Gen: 9
1325 Sim Starting
1326 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 598.9000000000007
1327 Ai: 25 Gen: 9
1328 Sim Starting
1329 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 210.9500000000009
1330 Ai: 26 Gen: 9
1331 Sim Starting
1332 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 878.6999999999979
1333 Ai: 27 Gen: 9
1334 Sim Starting
1335 Sim over Total pop = 0 Tick Complete = 2992
    Fitness = 393.3000000000051
1336 Ai: 28 Gen: 9
1337 Sim Starting
1338 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 320.1499999999986
1339 Ai: 29 Gen: 9
1340 Sim Starting
1341 Sim over Total pop = 0 Tick Complete = 2662
    Fitness = 145.7500000000003
1342 Ai: 30 Gen: 9
1343 Sim Starting
1344 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 437.4
1345 Ai: 31 Gen: 9
1346 Sim Starting
1347 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 317.2999999999982
1348 Ai: 32 Gen: 9
1349 Sim Starting
1350 Sim over Total pop = 0 Tick Complete = 4224
    Fitness = 258.9999999999998
1351 Ai: 33 Gen: 9
1352 Sim Starting
```

```
1353 Sim over Total pop = 0 Tick Complete = 5632
    Fitness = 313.9500000000026
1354 Ai: 34 Gen: 9
1355 Sim Starting
1356 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 537.6500000000001
1357 Ai: 35 Gen: 9
1358 Sim Starting
1359 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 300.4000000000106
1360 Ai: 36 Gen: 9
1361 Sim Starting
1362 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
1363 Ai: 37 Gen: 9
1364 Sim Starting
1365 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 590.800000000026
1366 Ai: 38 Gen: 9
1367 Sim Starting
1368 Sim over Total pop = 0 Tick Complete = 6325
    Fitness = 223.75
1369 Ai: 39 Gen: 9
1370 Sim Starting
1371 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 654.050000000012
1372 Ai: 40 Gen: 9
1373 Sim Starting
1374 Sim over Total pop = 0 Tick Complete = 3212
    Fitness = 527.450000000003
1375 Ai: 41 Gen: 9
1376 Sim Starting
1377 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 736.500000000013
1378 Ai: 42 Gen: 9
1379 Sim Starting
1380 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 629.55
1381 Ai: 43 Gen: 9
1382 Sim Starting
1383 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 806.5
1384 Ai: 44 Gen: 9
1385 Sim Starting
```

```
1386 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 255.5
1387 Ai: 45 Gen: 9
1388 Sim Starting
1389 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 103.50000000000048
1390 Ai: 46 Gen: 9
1391 Sim Starting
1392 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = -99.09999999999997
1393 Ai: 47 Gen: 9
1394 Sim Starting
1395 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 167.14999999999992
1396 Ai: 48 Gen: 9
1397 Sim Starting
1398 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
1399 Ai: 49 Gen: 9
1400 Sim Starting
1401 Sim over Total pop = 0 Tick Complete = 2519
    Fitness = 314.7500000000001
1402 Ai: 50 Gen: 9
1403 Sim Starting
1404 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
1405 Ai: 51 Gen: 9
1406 Sim Starting
1407 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 190.5
1408 Ai: 0 Gen: 10
1409 Sim Starting
1410 Sim over Total pop = 0 Tick Complete = 748
    Fitness = -126.35
1411 Ai: 1 Gen: 10
1412 Sim Starting
1413 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -129.1499999999998
1414 Ai: 2 Gen: 10
1415 Sim Starting
1416 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 189.5
1417 Ai: 3 Gen: 10
1418 Sim Starting
```

```
1419 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 436.4500000000002
1420 Ai: 4 Gen: 10
1421 Sim Starting
1422 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = -107.7499999999996
1423 Ai: 5 Gen: 10
1424 Sim Starting
1425 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -192.0
1426 Ai: 6 Gen: 10
1427 Sim Starting
1428 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 295.549999999992
1429 Ai: 7 Gen: 10
1430 Sim Starting
1431 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
1432 Ai: 8 Gen: 10
1433 Sim Starting
1434 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 138.0
1435 Ai: 9 Gen: 10
1436 Sim Starting
1437 Sim over Total pop = 0 Tick Complete = 9526
    Fitness = 849.250000000181
1438 Ai: 10 Gen: 10
1439 Sim Starting
1440 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 726.099999999965
1441 Ai: 11 Gen: 10
1442 Sim Starting
1443 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 720.300000000044
1444 Ai: 12 Gen: 10
1445 Sim Starting
1446 Sim over Total pop = 0 Tick Complete = 16863
    Fitness = 1282.749999999768
1447 Ai: 13 Gen: 10
1448 Sim Starting
1449 Sim over Total pop = 0 Tick Complete = 5126
    Fitness = 197.8499999999903
1450 Ai: 14 Gen: 10
1451 Sim Starting
```

```
1452 Sim over Total pop = 0 Tick Complete = 5137
    Fitness = 234.70000000000016
1453 Ai: 15 Gen: 10
1454 Sim Starting
1455 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 142.5
1456 Ai: 16 Gen: 10
1457 Sim Starting
1458 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 404.3000000000064
1459 Ai: 17 Gen: 10
1460 Sim Starting
1461 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 158.5499999999995
1462 Ai: 18 Gen: 10
1463 Sim Starting
1464 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 291.8000000000047
1465 Ai: 19 Gen: 10
1466 Sim Starting
1467 Sim over Total pop = 0 Tick Complete = 4774
    Fitness = 731.899999999958
1468 Ai: 20 Gen: 10
1469 Sim Starting
1470 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 384.8499999999945
1471 Ai: 21 Gen: 10
1472 Sim Starting
1473 Sim over Total pop = 0 Tick Complete = 3630
    Fitness = 820.049999999955
1474 Ai: 22 Gen: 10
1475 Sim Starting
1476 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 253.4500000000005
1477 Ai: 23 Gen: 10
1478 Sim Starting
1479 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 474.400000000001
1480 Ai: 24 Gen: 10
1481 Sim Starting
1482 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 85.1499999999993
1483 Ai: 25 Gen: 10
1484 Sim Starting
```

```
1485 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
1486 Ai: 26 Gen: 10
1487 Sim Starting
1488 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 342.4000000000001
1489 Ai: 27 Gen: 10
1490 Sim Starting
1491 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 530.8500000000001
1492 Ai: 28 Gen: 10
1493 Sim Starting
1494 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 319.0
1495 Ai: 29 Gen: 10
1496 Sim Starting
1497 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = -39.29999999999756
1498 Ai: 30 Gen: 10
1499 Sim Starting
1500 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 553.2500000000001
1501 Ai: 31 Gen: 10
1502 Sim Starting
1503 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 333.4999999999983
1504 Ai: 32 Gen: 10
1505 Sim Starting
1506 Sim over Total pop = 0 Tick Complete = 9064
    Fitness = 702.85
1507 Ai: 33 Gen: 10
1508 Sim Starting
1509 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 299.9000000000004
1510 Ai: 34 Gen: 10
1511 Sim Starting
1512 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
1513 Ai: 35 Gen: 10
1514 Sim Starting
1515 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 311.5
1516 Ai: 36 Gen: 10
1517 Sim Starting
```

```
1518 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 318.0
1519 Ai: 37 Gen: 10
1520 Sim Starting
1521 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 333.5
1522 Ai: 38 Gen: 10
1523 Sim Starting
1524 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 179.5
1525 Ai: 39 Gen: 10
1526 Sim Starting
1527 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 678.000000000002
1528 Ai: 40 Gen: 10
1529 Sim Starting
1530 Sim over Total pop = 0 Tick Complete = 3575
    Fitness = 183.7000000000078
1531 Ai: 41 Gen: 10
1532 Sim Starting
1533 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 194.0
1534 Ai: 42 Gen: 10
1535 Sim Starting
1536 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 620.999999999999
1537 Ai: 43 Gen: 10
1538 Sim Starting
1539 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 617.699999999996
1540 Ai: 44 Gen: 10
1541 Sim Starting
1542 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 740.549999999915
1543 Ai: 45 Gen: 10
1544 Sim Starting
1545 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 272.099999999993
1546 Ai: 46 Gen: 10
1547 Sim Starting
1548 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 231.3999999999998
1549 Ai: 47 Gen: 10
1550 Sim Starting
```

```
1551 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
1552 Ai: 48 Gen: 10
1553 Sim Starting
1554 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 300.8499999999997
1555 Ai: 49 Gen: 10
1556 Sim Starting
1557 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 273.0
1558 Ai: 50 Gen: 10
1559 Sim Starting
1560 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 208.0
1561 Ai: 51 Gen: 10
1562 Sim Starting
1563 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 341.2999999999995
1564 Ai: 0 Gen: 11
1565 Sim Starting
1566 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -157.25
1567 Ai: 1 Gen: 11
1568 Sim Starting
1569 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -168.3000000000007
1570 Ai: 2 Gen: 11
1571 Sim Starting
1572 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = -144.6000000000002
1573 Ai: 3 Gen: 11
1574 Sim Starting
1575 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 360.8000000000007
1576 Ai: 4 Gen: 11
1577 Sim Starting
1578 Sim over Total pop = 0 Tick Complete = 4224
    Fitness = 584.2500000000064
1579 Ai: 5 Gen: 11
1580 Sim Starting
1581 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 82.3999999999988
1582 Ai: 6 Gen: 11
1583 Sim Starting
```

```
1584 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
1585 Ai: 7 Gen: 11
1586 Sim Starting
1587 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
1588 Ai: 8 Gen: 11
1589 Sim Starting
1590 Sim over Total pop = 0 Tick Complete = 7590
    Fitness = 496.300000000087
1591 Ai: 9 Gen: 11
1592 Sim Starting
1593 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 155.0
1594 Ai: 10 Gen: 11
1595 Sim Starting
1596 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 211.5
1597 Ai: 11 Gen: 11
1598 Sim Starting
1599 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
1600 Ai: 12 Gen: 11
1601 Sim Starting
1602 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 473.9999999999704
1603 Ai: 13 Gen: 11
1604 Sim Starting
1605 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
1606 Ai: 14 Gen: 11
1607 Sim Starting
1608 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 530.750000000043
1609 Ai: 15 Gen: 11
1610 Sim Starting
1611 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 411.0499999999995
1612 Ai: 16 Gen: 11
1613 Sim Starting
1614 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 311.8499999999999
1615 Ai: 17 Gen: 11
1616 Sim Starting
```

```
1617 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 390.0
1618 Ai: 18 Gen: 11
1619 Sim Starting
1620 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 276.9
1621 Ai: 19 Gen: 11
1622 Sim Starting
1623 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 453.0499999999995
1624 Ai: 20 Gen: 11
1625 Sim Starting
1626 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 588.6500000000009
1627 Ai: 21 Gen: 11
1628 Sim Starting
1629 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 831.249999999994
1630 Ai: 22 Gen: 11
1631 Sim Starting
1632 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 512.950000000004
1633 Ai: 23 Gen: 11
1634 Sim Starting
1635 Sim over Total pop = 0 Tick Complete = 4466
    Fitness = 664.500000000094
1636 Ai: 24 Gen: 11
1637 Sim Starting
1638 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 448.4
1639 Ai: 25 Gen: 11
1640 Sim Starting
1641 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 556.299999999996
1642 Ai: 26 Gen: 11
1643 Sim Starting
1644 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 522.4
1645 Ai: 27 Gen: 11
1646 Sim Starting
1647 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 711.449999999986
1648 Ai: 28 Gen: 11
1649 Sim Starting
```

```
1650 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 320.8999999999993
1651 Ai: 29 Gen: 11
1652 Sim Starting
1653 Sim over Total pop = 0 Tick Complete = 10439
    Fitness = 666.549999999862
1654 Ai: 30 Gen: 11
1655 Sim Starting
1656 Sim over Total pop = 0 Tick Complete = 935
    Fitness = -141.4500000000002
1657 Ai: 31 Gen: 11
1658 Sim Starting
1659 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = -57.8999999999916
1660 Ai: 32 Gen: 11
1661 Sim Starting
1662 Sim over Total pop = 0 Tick Complete = 8107
    Fitness = 659.300000000065
1663 Ai: 33 Gen: 11
1664 Sim Starting
1665 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 347.5
1666 Ai: 34 Gen: 11
1667 Sim Starting
1668 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 396.650000000001
1669 Ai: 35 Gen: 11
1670 Sim Starting
1671 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1672 Ai: 36 Gen: 11
1673 Sim Starting
1674 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 545.499999999993
1675 Ai: 37 Gen: 11
1676 Sim Starting
1677 Sim over Total pop = 0 Tick Complete = 990
    Fitness = -26.29999999999994
1678 Ai: 38 Gen: 11
1679 Sim Starting
1680 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 438.1499999999776
1681 Ai: 39 Gen: 11
1682 Sim Starting
```

```
1683 Sim over Total pop = 0 Tick Complete = 3146
    Fitness = 934.0500000000069
1684 Ai: 40 Gen: 11
1685 Sim Starting
1686 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 363.7500000000025
1687 Ai: 41 Gen: 11
1688 Sim Starting
1689 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 281.5
1690 Ai: 42 Gen: 11
1691 Sim Starting
1692 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 440.7999999999933
1693 Ai: 43 Gen: 11
1694 Sim Starting
1695 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 172.8500000000002
1696 Ai: 44 Gen: 11
1697 Sim Starting
1698 Sim over Total pop = 0 Tick Complete = 3190
    Fitness = 703.4500000000052
1699 Ai: 45 Gen: 11
1700 Sim Starting
1701 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 458.1000000000076
1702 Ai: 46 Gen: 11
1703 Sim Starting
1704 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
1705 Ai: 47 Gen: 11
1706 Sim Starting
1707 Sim over Total pop = 0 Tick Complete = 3729
    Fitness = 483.599999999997
1708 Ai: 48 Gen: 11
1709 Sim Starting
1710 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 871.9000000000058
1711 Ai: 49 Gen: 11
1712 Sim Starting
1713 Sim over Total pop = 0 Tick Complete = 5709
    Fitness = 555.8500000000009
1714 Ai: 50 Gen: 11
1715 Sim Starting
```

```
1716 Sim over Total pop = 0 Tick Complete = 4147
    Fitness = 238.65000000000146
1717 Ai: 51 Gen: 11
1718 Sim Starting
1719 Sim over Total pop = 0 Tick Complete = 5577
    Fitness = 587.9500000000012
1720 Ai: 0 Gen: 12
1721 Sim Starting
1722 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -161.4000000000003
1723 Ai: 1 Gen: 12
1724 Sim Starting
1725 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -144.3500000000002
1726 Ai: 2 Gen: 12
1727 Sim Starting
1728 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 334.0
1729 Ai: 3 Gen: 12
1730 Sim Starting
1731 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 26.75000000000014
1732 Ai: 4 Gen: 12
1733 Sim Starting
1734 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 719.0
1735 Ai: 5 Gen: 12
1736 Sim Starting
1737 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 392.5
1738 Ai: 6 Gen: 12
1739 Sim Starting
1740 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 458.5
1741 Ai: 7 Gen: 12
1742 Sim Starting
1743 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 354.2499999999999
1744 Ai: 8 Gen: 12
1745 Sim Starting
1746 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 367.65
1747 Ai: 9 Gen: 12
1748 Sim Starting
```

```
1749 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 661.6000000000022
1750 Ai: 10 Gen: 12
1751 Sim Starting
1752 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
1753 Ai: 11 Gen: 12
1754 Sim Starting
1755 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 309.4
1756 Ai: 12 Gen: 12
1757 Sim Starting
1758 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 542.400000000005
1759 Ai: 13 Gen: 12
1760 Sim Starting
1761 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 1004.5999999999879
1762 Ai: 14 Gen: 12
1763 Sim Starting
1764 Sim over Total pop = 0 Tick Complete = 3300
    Fitness = 276.8500000000014
1765 Ai: 15 Gen: 12
1766 Sim Starting
1767 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 153.5
1768 Ai: 16 Gen: 12
1769 Sim Starting
1770 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 129.0
1771 Ai: 17 Gen: 12
1772 Sim Starting
1773 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 559.8000000000011
1774 Ai: 18 Gen: 12
1775 Sim Starting
1776 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 668.7000000000007
1777 Ai: 19 Gen: 12
1778 Sim Starting
1779 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 266.9000000000003
1780 Ai: 20 Gen: 12
1781 Sim Starting
```

```
1782 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 266.0
1783 Ai: 21 Gen: 12
1784 Sim Starting
1785 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
1786 Ai: 22 Gen: 12
1787 Sim Starting
1788 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 528.600000000001
1789 Ai: 23 Gen: 12
1790 Sim Starting
1791 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 229.05
1792 Ai: 24 Gen: 12
1793 Sim Starting
1794 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -153.8
1795 Ai: 25 Gen: 12
1796 Sim Starting
1797 Sim over Total pop = 0 Tick Complete = 3531
    Fitness = 437.6500000000015
1798 Ai: 26 Gen: 12
1799 Sim Starting
1800 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 142.6999999999973
1801 Ai: 27 Gen: 12
1802 Sim Starting
1803 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 405.6499999999907
1804 Ai: 28 Gen: 12
1805 Sim Starting
1806 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -158.4500000000002
1807 Ai: 29 Gen: 12
1808 Sim Starting
1809 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 272.5
1810 Ai: 30 Gen: 12
1811 Sim Starting
1812 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 723.7500000000028
1813 Ai: 31 Gen: 12
1814 Sim Starting
```

```
1815 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
1816 Ai: 32 Gen: 12
1817 Sim Starting
1818 Sim over Total pop = 0 Tick Complete = 4059
    Fitness = 1315.3499999999938
1819 Ai: 33 Gen: 12
1820 Sim Starting
1821 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 803.8000000000008
1822 Ai: 34 Gen: 12
1823 Sim Starting
1824 Sim over Total pop = 0 Tick Complete = 4345
    Fitness = 668.6499999999935
1825 Ai: 35 Gen: 12
1826 Sim Starting
1827 Sim over Total pop = 0 Tick Complete = 3575
    Fitness = 473.8500000000036
1828 Ai: 36 Gen: 12
1829 Sim Starting
1830 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 263.7999999999999
1831 Ai: 37 Gen: 12
1832 Sim Starting
1833 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
1834 Ai: 38 Gen: 12
1835 Sim Starting
1836 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 307.6499999999995
1837 Ai: 39 Gen: 12
1838 Sim Starting
1839 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 642.7499999999993
1840 Ai: 40 Gen: 12
1841 Sim Starting
1842 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 236.45
1843 Ai: 41 Gen: 12
1844 Sim Starting
1845 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 631.6499999999975
1846 Ai: 42 Gen: 12
1847 Sim Starting
```

```
1848 Sim over Total pop = 0 Tick Complete = 2530
    Fitness = 121.29999999999998
1849 Ai: 43 Gen: 12
1850 Sim Starting
1851 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 379.9499999999996
1852 Ai: 44 Gen: 12
1853 Sim Starting
1854 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -84.5
1855 Ai: 45 Gen: 12
1856 Sim Starting
1857 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 272.55
1858 Ai: 46 Gen: 12
1859 Sim Starting
1860 Sim over Total pop = 0 Tick Complete = 5632
    Fitness = 471.0
1861 Ai: 47 Gen: 12
1862 Sim Starting
1863 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 319.55000000000007
1864 Ai: 48 Gen: 12
1865 Sim Starting
1866 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1332.049999999747
1867 Ai: 0 Gen: 13
1868 Sim Starting
1869 Sim over Total pop = 0 Tick Complete = 624
    Fitness = -156.15
1870 Ai: 1 Gen: 13
1871 Sim Starting
1872 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -151.40000000000003
1873 Ai: 2 Gen: 13
1874 Sim Starting
1875 Sim over Total pop = 0 Tick Complete = 3663
    Fitness = 544.900000000012
1876 Ai: 3 Gen: 13
1877 Sim Starting
1878 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 259.0
1879 Ai: 4 Gen: 13
1880 Sim Starting
```

```
1881 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 395.1500000000002
1882 Ai: 5 Gen: 13
1883 Sim Starting
1884 Sim over Total pop = 0 Tick Complete = 6941
    Fitness = 250.5999999999999
1885 Ai: 6 Gen: 13
1886 Sim Starting
1887 Sim over Total pop = 0 Tick Complete = 14487
    Fitness = 867.349999999789
1888 Ai: 7 Gen: 13
1889 Sim Starting
1890 Sim over Total pop = 0 Tick Complete = 5104
    Fitness = 570.899999999999
1891 Ai: 8 Gen: 13
1892 Sim Starting
1893 Sim over Total pop = 0 Tick Complete = 2090
    Fitness = 44.2999999999987
1894 Ai: 9 Gen: 13
1895 Sim Starting
1896 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 338.500000000011
1897 Ai: 10 Gen: 13
1898 Sim Starting
1899 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 642.150000000001
1900 Ai: 11 Gen: 13
1901 Sim Starting
1902 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 357.15
1903 Ai: 12 Gen: 13
1904 Sim Starting
1905 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 628.349999999995
1906 Ai: 13 Gen: 13
1907 Sim Starting
1908 Sim over Total pop = 0 Tick Complete = 3080
    Fitness = 931.60000000006
1909 Ai: 14 Gen: 13
1910 Sim Starting
1911 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 281.2999999999995
1912 Ai: 15 Gen: 13
1913 Sim Starting
```

```
1914 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 340.75
1915 Ai: 16 Gen: 13
1916 Sim Starting
1917 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 686.3000000000021
1918 Ai: 17 Gen: 13
1919 Sim Starting
1920 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 305.8999999999964
1921 Ai: 18 Gen: 13
1922 Sim Starting
1923 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 480.24999999999807
1924 Ai: 19 Gen: 13
1925 Sim Starting
1926 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 171.7000000000005
1927 Ai: 20 Gen: 13
1928 Sim Starting
1929 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 808.0000000000013
1930 Ai: 21 Gen: 13
1931 Sim Starting
1932 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 304.5000000000006
1933 Ai: 22 Gen: 13
1934 Sim Starting
1935 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 218.299999999996
1936 Ai: 23 Gen: 13
1937 Sim Starting
1938 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 250.5
1939 Ai: 24 Gen: 13
1940 Sim Starting
1941 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 600.049999999999
1942 Ai: 25 Gen: 13
1943 Sim Starting
1944 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 382.5
1945 Ai: 26 Gen: 13
1946 Sim Starting
```

```
1947 Sim over Total pop = 0 Tick Complete = 3575
    Fitness = 439.9999999999996
1948 Ai: 27 Gen: 13
1949 Sim Starting
1950 Sim over Total pop = 0 Tick Complete = 8580
    Fitness = 770.0000000000008
1951 Ai: 28 Gen: 13
1952 Sim Starting
1953 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 393.0000000000001
1954 Ai: 29 Gen: 13
1955 Sim Starting
1956 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 219.0
1957 Ai: 30 Gen: 13
1958 Sim Starting
1959 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 483.5500000000003
1960 Ai: 31 Gen: 13
1961 Sim Starting
1962 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 289.5
1963 Ai: 32 Gen: 13
1964 Sim Starting
1965 Sim over Total pop = 0 Tick Complete = 4092
    Fitness = 635.7000000000003
1966 Ai: 33 Gen: 13
1967 Sim Starting
1968 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
1969 Ai: 34 Gen: 13
1970 Sim Starting
1971 Sim over Total pop = 0 Tick Complete = 3014
    Fitness = 791.2000000000065
1972 Ai: 35 Gen: 13
1973 Sim Starting
1974 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
1975 Ai: 36 Gen: 13
1976 Sim Starting
1977 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 612.2499999999989
1978 Ai: 37 Gen: 13
1979 Sim Starting
```

| | | |
|------|-----------------------------|----------------------|
| 1980 | Sim over Total pop = 0 | Tick Complete = 990 |
| | Fitness = 256.45 | |
| 1981 | Ai: 38 | Gen: 13 |
| 1982 | Sim Starting | |
| 1983 | Sim over Total pop = 0 | Tick Complete = 682 |
| | Fitness = 224.6000000000002 | |
| 1984 | Ai: 39 | Gen: 13 |
| 1985 | Sim Starting | |
| 1986 | Sim over Total pop = 0 | Tick Complete = 682 |
| | Fitness = 329.0 | |
| 1987 | Ai: 40 | Gen: 13 |
| 1988 | Sim Starting | |
| 1989 | Sim over Total pop = 0 | Tick Complete = 1188 |
| | Fitness = 327.749999999997 | |
| 1990 | Ai: 41 | Gen: 13 |
| 1991 | Sim Starting | |
| 1992 | Sim over Total pop = 0 | Tick Complete = 1254 |
| | Fitness = 305.5999999999997 | |
| 1993 | Ai: 42 | Gen: 13 |
| 1994 | Sim Starting | |
| 1995 | Sim over Total pop = 0 | Tick Complete = 627 |
| | Fitness = 104.0 | |
| 1996 | Ai: 43 | Gen: 13 |
| 1997 | Sim Starting | |
| 1998 | Sim over Total pop = 0 | Tick Complete = 1155 |
| | Fitness = 231.4499999999942 | |
| 1999 | Ai: 44 | Gen: 13 |
| 2000 | Sim Starting | |
| 2001 | Sim over Total pop = 0 | Tick Complete = 781 |
| | Fitness = 337.0 | |
| 2002 | Ai: 45 | Gen: 13 |
| 2003 | Sim Starting | |
| 2004 | Sim over Total pop = 0 | Tick Complete = 1034 |
| | Fitness = 261.4 | |
| 2005 | Ai: 46 | Gen: 13 |
| 2006 | Sim Starting | |
| 2007 | Sim over Total pop = 0 | Tick Complete = 2343 |
| | Fitness = 315.849999999999 | |
| 2008 | Ai: 47 | Gen: 13 |
| 2009 | Sim Starting | |
| 2010 | Sim over Total pop = 0 | Tick Complete = 6325 |
| | Fitness = 226.75 | |
| 2011 | Ai: 48 | Gen: 13 |
| 2012 | Sim Starting | |

```
2013 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 681.9
2014 Ai: 49 Gen: 13
2015 Sim Starting
2016 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 445.3499999999997
2017 Ai: 50 Gen: 13
2018 Sim Starting
2019 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 388.85
2020 Ai: 51 Gen: 13
2021 Sim Starting
2022 Sim over Total pop = 0 Tick Complete = 2772
    Fitness = 121.84999999999965
2023 Ai: 0 Gen: 14
2024 Sim Starting
2025 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 334.1500000000014
2026 Ai: 1 Gen: 14
2027 Sim Starting
2028 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -167.0
2029 Ai: 2 Gen: 14
2030 Sim Starting
2031 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 567.0999999999995
2032 Ai: 3 Gen: 14
2033 Sim Starting
2034 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 233.7499999999983
2035 Ai: 4 Gen: 14
2036 Sim Starting
2037 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 117.9
2038 Ai: 5 Gen: 14
2039 Sim Starting
2040 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 366.6500000000001
2041 Ai: 6 Gen: 14
2042 Sim Starting
2043 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 137.75
2044 Ai: 7 Gen: 14
2045 Sim Starting
```

```
2046 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 512.9000000000025
2047 Ai: 8 Gen: 14
2048 Sim Starting
2049 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
2050 Ai: 9 Gen: 14
2051 Sim Starting
2052 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 21.29999999999784
2053 Ai: 10 Gen: 14
2054 Sim Starting
2055 Sim over Total pop = 0 Tick Complete = 2090
    Fitness = 709.3999999999965
2056 Ai: 11 Gen: 14
2057 Sim Starting
2058 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 149.65000000000072
2059 Ai: 12 Gen: 14
2060 Sim Starting
2061 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 243.0000000000034
2062 Ai: 13 Gen: 14
2063 Sim Starting
2064 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 285.8499999999974
2065 Ai: 14 Gen: 14
2066 Sim Starting
2067 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 205.25
2068 Ai: 15 Gen: 14
2069 Sim Starting
2070 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 250.8000000000047
2071 Ai: 16 Gen: 14
2072 Sim Starting
2073 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 490.3000000000009
2074 Ai: 17 Gen: 14
2075 Sim Starting
2076 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 441.0499999999988
2077 Ai: 18 Gen: 14
2078 Sim Starting
```

```
2079 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 151.39999999999998
2080 Ai: 19 Gen: 14
2081 Sim Starting
2082 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 156.50000000000006
2083 Ai: 20 Gen: 14
2084 Sim Starting
2085 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
2086 Ai: 21 Gen: 14
2087 Sim Starting
2088 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 249.04999999999978
2089 Ai: 22 Gen: 14
2090 Sim Starting
2091 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 350.5
2092 Ai: 23 Gen: 14
2093 Sim Starting
2094 Sim over Total pop = 0 Tick Complete = 14322
    Fitness = 855.600000000222
2095 Ai: 24 Gen: 14
2096 Sim Starting
2097 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 285.0
2098 Ai: 25 Gen: 14
2099 Sim Starting
2100 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 383.0
2101 Ai: 26 Gen: 14
2102 Sim Starting
2103 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 258.65
2104 Ai: 27 Gen: 14
2105 Sim Starting
2106 Sim over Total pop = 0 Tick Complete = 5104
    Fitness = 669.450000000068
2107 Ai: 28 Gen: 14
2108 Sim Starting
2109 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 756.350000000021
2110 Ai: 29 Gen: 14
2111 Sim Starting
```

```
2112 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 365.5
2113 Ai: 30 Gen: 14
2114 Sim Starting
2115 Sim over Total pop = 0 Tick Complete = 8569
    Fitness = 587.3000000000122
2116 Ai: 31 Gen: 14
2117 Sim Starting
2118 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 276.25
2119 Ai: 32 Gen: 14
2120 Sim Starting
2121 Sim over Total pop = 0 Tick Complete = 10538
    Fitness = 581.999999999895
2122 Ai: 33 Gen: 14
2123 Sim Starting
2124 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 350.0
2125 Ai: 34 Gen: 14
2126 Sim Starting
2127 Sim over Total pop = 0 Tick Complete = 3377
    Fitness = 372.6000000000036
2128 Ai: 35 Gen: 14
2129 Sim Starting
2130 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 503.25
2131 Ai: 36 Gen: 14
2132 Sim Starting
2133 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 234.25
2134 Ai: 37 Gen: 14
2135 Sim Starting
2136 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 226.5
2137 Ai: 38 Gen: 14
2138 Sim Starting
2139 Sim over Total pop = 0 Tick Complete = 5896
    Fitness = 1343.999999999764
2140 Ai: 39 Gen: 14
2141 Sim Starting
2142 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
2143 Ai: 40 Gen: 14
2144 Sim Starting
```

```
2145 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 439.8000000000002
2146 Ai: 41 Gen: 14
2147 Sim Starting
2148 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 154.1000000000002
2149 Ai: 42 Gen: 14
2150 Sim Starting
2151 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
2152 Ai: 43 Gen: 14
2153 Sim Starting
2154 Sim over Total pop = 0 Tick Complete = 8008
    Fitness = 826.400000000038
2155 Ai: 44 Gen: 14
2156 Sim Starting
2157 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 451.500000000001
2158 Ai: 45 Gen: 14
2159 Sim Starting
2160 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 406.8
2161 Ai: 46 Gen: 14
2162 Sim Starting
2163 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -178.000000000003
2164 Ai: 47 Gen: 14
2165 Sim Starting
2166 Sim over Total pop = 0 Tick Complete = 4499
    Fitness = 1053.300000000068
2167 Ai: 48 Gen: 14
2168 Sim Starting
2169 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 446.400000000011
2170 Ai: 49 Gen: 14
2171 Sim Starting
2172 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 537.499999999999
2173 Ai: 50 Gen: 14
2174 Sim Starting
2175 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 258.0
2176 Ai: 51 Gen: 14
2177 Sim Starting
```

```
2178 Sim over Total pop = 0 Tick Complete = 3388
    Fitness = 651.15
2179 Ai: 52 Gen: 14
2180 Sim Starting
2181 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 339.2500000000045
2182 Ai: 0 Gen: 15
2183 Sim Starting
2184 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 249.6000000000002
2185 Ai: 1 Gen: 15
2186 Sim Starting
2187 Sim over Total pop = 0 Tick Complete = 4345
    Fitness = 327.59999999999656
2188 Ai: 2 Gen: 15
2189 Sim Starting
2190 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -76.7500000000006
2191 Ai: 3 Gen: 15
2192 Sim Starting
2193 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -144.7000000000002
2194 Ai: 4 Gen: 15
2195 Sim Starting
2196 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
2197 Ai: 5 Gen: 15
2198 Sim Starting
2199 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 229.6000000000056
2200 Ai: 6 Gen: 15
2201 Sim Starting
2202 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 218.5
2203 Ai: 7 Gen: 15
2204 Sim Starting
2205 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 279.15
2206 Ai: 8 Gen: 15
2207 Sim Starting
2208 Sim over Total pop = 0 Tick Complete = 2607
    Fitness = 620.8999999999997
2209 Ai: 9 Gen: 15
2210 Sim Starting
```

```
2211 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 522.65
2212 Ai: 10 Gen: 15
2213 Sim Starting
2214 Sim over Total pop = 0 Tick Complete = 6391
    Fitness = 817.9500000000152
2215 Ai: 11 Gen: 15
2216 Sim Starting
2217 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
2218 Ai: 12 Gen: 15
2219 Sim Starting
2220 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 310.1499999999804
2221 Ai: 13 Gen: 15
2222 Sim Starting
2223 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = 305.0000000000001
2224 Ai: 14 Gen: 15
2225 Sim Starting
2226 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 624.1000000000016
2227 Ai: 15 Gen: 15
2228 Sim Starting
2229 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
2230 Ai: 16 Gen: 15
2231 Sim Starting
2232 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 140.9500000000001
2233 Ai: 17 Gen: 15
2234 Sim Starting
2235 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 246.0000000000023
2236 Ai: 18 Gen: 15
2237 Sim Starting
2238 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
2239 Ai: 19 Gen: 15
2240 Sim Starting
2241 Sim over Total pop = 0 Tick Complete = 3212
    Fitness = 621.8499999999999
2242 Ai: 20 Gen: 15
2243 Sim Starting
```

```
2244 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 229.850000000000008
2245 Ai: 21 Gen: 15
2246 Sim Starting
2247 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 380.9500000000004
2248 Ai: 22 Gen: 15
2249 Sim Starting
2250 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 284.7500000000008
2251 Ai: 23 Gen: 15
2252 Sim Starting
2253 Sim over Total pop = 0 Tick Complete = 14806
    Fitness = 1340.950000000022
2254 Ai: 24 Gen: 15
2255 Sim Starting
2256 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 396.0500000000064
2257 Ai: 25 Gen: 15
2258 Sim Starting
2259 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 252.3499999999877
2260 Ai: 26 Gen: 15
2261 Sim Starting
2262 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 241.0
2263 Ai: 27 Gen: 15
2264 Sim Starting
2265 Sim over Total pop = 0 Tick Complete = 1793
    Fitness = 157.4499999999999
2266 Ai: 28 Gen: 15
2267 Sim Starting
2268 Sim over Total pop = 0 Tick Complete = 5610
    Fitness = 1092.0500000000065
2269 Ai: 29 Gen: 15
2270 Sim Starting
2271 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 351.350000000001
2272 Ai: 30 Gen: 15
2273 Sim Starting
2274 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 347.3499999999997
2275 Ai: 31 Gen: 15
2276 Sim Starting
```

```
2277 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 282.65000000000002
2278 Ai: 32 Gen: 15
2279 Sim Starting
2280 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 327.95000000000005
2281 Ai: 33 Gen: 15
2282 Sim Starting
2283 Sim over Total pop = 0 Tick Complete = 5060
    Fitness = 701.4500000000023
2284 Ai: 34 Gen: 15
2285 Sim Starting
2286 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 281.8000000000004
2287 Ai: 35 Gen: 15
2288 Sim Starting
2289 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 234.75
2290 Ai: 36 Gen: 15
2291 Sim Starting
2292 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 427.3499999999999
2293 Ai: 37 Gen: 15
2294 Sim Starting
2295 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 332.35000000000076
2296 Ai: 38 Gen: 15
2297 Sim Starting
2298 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 193.1999999999993
2299 Ai: 39 Gen: 15
2300 Sim Starting
2301 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
2302 Ai: 40 Gen: 15
2303 Sim Starting
2304 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 32.65000000000005
2305 Ai: 41 Gen: 15
2306 Sim Starting
2307 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 238.2999999999999
2308 Ai: 42 Gen: 15
2309 Sim Starting
```

```
2310 Sim over Total pop = 0 Tick Complete = 6545
    Fitness = 496.25
2311 Ai: 43 Gen: 15
2312 Sim Starting
2313 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 170.0000000000023
2314 Ai: 44 Gen: 15
2315 Sim Starting
2316 Sim over Total pop = 0 Tick Complete = 5654
    Fitness = 185.3499999999954
2317 Ai: 45 Gen: 15
2318 Sim Starting
2319 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 314.9000000000003
2320 Ai: 46 Gen: 15
2321 Sim Starting
2322 Sim over Total pop = 0 Tick Complete = 2640
    Fitness = 642.4500000000005
2323 Ai: 47 Gen: 15
2324 Sim Starting
2325 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -146.2000000000002
2326 Ai: 48 Gen: 15
2327 Sim Starting
2328 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 302.25
2329 Ai: 0 Gen: 16
2330 Sim Starting
2331 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -157.5000000000003
2332 Ai: 1 Gen: 16
2333 Sim Starting
2334 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -171.1
2335 Ai: 2 Gen: 16
2336 Sim Starting
2337 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 336.2500000000012
2338 Ai: 3 Gen: 16
2339 Sim Starting
2340 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 123.0
2341 Ai: 4 Gen: 16
2342 Sim Starting
```

```
2343 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 534.9500000000008
2344 Ai: 5 Gen: 16
2345 Sim Starting
2346 Sim over Total pop = 0 Tick Complete = 17600
    Fitness = 1865.449999998793
2347 Ai: 6 Gen: 16
2348 Sim Starting
2349 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 278.4
2350 Ai: 7 Gen: 16
2351 Sim Starting
2352 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 400.85
2353 Ai: 8 Gen: 16
2354 Sim Starting
2355 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
2356 Ai: 9 Gen: 16
2357 Sim Starting
2358 Sim over Total pop = 0 Tick Complete = 561
    Fitness = 114.0
2359 Ai: 10 Gen: 16
2360 Sim Starting
2361 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 878.199999999996
2362 Ai: 11 Gen: 16
2363 Sim Starting
2364 Sim over Total pop = 0 Tick Complete = 2189
    Fitness = 504.900000000011
2365 Ai: 12 Gen: 16
2366 Sim Starting
2367 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -183.0
2368 Ai: 13 Gen: 16
2369 Sim Starting
2370 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 193.0
2371 Ai: 14 Gen: 16
2372 Sim Starting
2373 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 420.3999999999975
2374 Ai: 15 Gen: 16
2375 Sim Starting
```

```
2376 Sim over Total pop = 0 Tick Complete = 759
    Fitness = -68.05000000000001
2377 Ai: 16 Gen: 16
2378 Sim Starting
2379 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 177.1
2380 Ai: 17 Gen: 16
2381 Sim Starting
2382 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 217.0000000000017
2383 Ai: 18 Gen: 16
2384 Sim Starting
2385 Sim over Total pop = 0 Tick Complete = 5346
    Fitness = 1132.4500000000023
2386 Ai: 19 Gen: 16
2387 Sim Starting
2388 Sim over Total pop = 0 Tick Complete = 3817
    Fitness = 988.400000000001
2389 Ai: 20 Gen: 16
2390 Sim Starting
2391 Sim over Total pop = 10 Tick Complete = 20001
    Fitness = 1063.75
2392 Ai: 21 Gen: 16
2393 Sim Starting
2394 Sim over Total pop = 0 Tick Complete = 1108
    Fitness = 312.9499999999976
2395 Ai: 22 Gen: 16
2396 Sim Starting
2397 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 160.0
2398 Ai: 23 Gen: 16
2399 Sim Starting
2400 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 128.8
2401 Ai: 24 Gen: 16
2402 Sim Starting
2403 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 165.7999999999995
2404 Ai: 25 Gen: 16
2405 Sim Starting
2406 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 372.9
2407 Ai: 26 Gen: 16
2408 Sim Starting
```

```
2409 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 684.2500000000001
2410 Ai: 27 Gen: 16
2411 Sim Starting
2412 Sim over Total pop = 0 Tick Complete = 2211
    Fitness = 922.0999999999966
2413 Ai: 28 Gen: 16
2414 Sim Starting
2415 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
2416 Ai: 29 Gen: 16
2417 Sim Starting
2418 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -154.55
2419 Ai: 30 Gen: 16
2420 Sim Starting
2421 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 468.9000000000043
2422 Ai: 31 Gen: 16
2423 Sim Starting
2424 Sim over Total pop = 0 Tick Complete = 14003
    Fitness = 629.7499999999884
2425 Ai: 32 Gen: 16
2426 Sim Starting
2427 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 407.5999999999997
2428 Ai: 33 Gen: 16
2429 Sim Starting
2430 Sim over Total pop = 0 Tick Complete = 3432
    Fitness = 264.0
2431 Ai: 34 Gen: 16
2432 Sim Starting
2433 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 593.999999999989
2434 Ai: 35 Gen: 16
2435 Sim Starting
2436 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 498.3500000000008
2437 Ai: 36 Gen: 16
2438 Sim Starting
2439 Sim over Total pop = 0 Tick Complete = 990
    Fitness = -16.05
2440 Ai: 37 Gen: 16
2441 Sim Starting
```

```
2442 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 141.10000000000014
2443 Ai: 38 Gen: 16
2444 Sim Starting
2445 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 369.20000000000095
2446 Ai: 39 Gen: 16
2447 Sim Starting
2448 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = -52.85000000000001
2449 Ai: 40 Gen: 16
2450 Sim Starting
2451 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = -57.10000000000047
2452 Ai: 41 Gen: 16
2453 Sim Starting
2454 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 205.89999999999998
2455 Ai: 42 Gen: 16
2456 Sim Starting
2457 Sim over Total pop = 0 Tick Complete = 3487
    Fitness = 472.0000000000021
2458 Ai: 43 Gen: 16
2459 Sim Starting
2460 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 125.69999999999993
2461 Ai: 44 Gen: 16
2462 Sim Starting
2463 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 168.4999999999966
2464 Ai: 45 Gen: 16
2465 Sim Starting
2466 Sim over Total pop = 0 Tick Complete = 825
    Fitness = -165.6499999999998
2467 Ai: 46 Gen: 16
2468 Sim Starting
2469 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 339.1500000000009
2470 Ai: 47 Gen: 16
2471 Sim Starting
2472 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 377.2499999999984
2473 Ai: 0 Gen: 17
2474 Sim Starting
```

```
2475 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 194.100000000001
2476 Ai: 1 Gen: 17
2477 Sim Starting
2478 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -181.2
2479 Ai: 2 Gen: 17
2480 Sim Starting
2481 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 837.1500000000013
2482 Ai: 3 Gen: 17
2483 Sim Starting
2484 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 592.3500000000013
2485 Ai: 4 Gen: 17
2486 Sim Starting
2487 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 212.9999999999994
2488 Ai: 5 Gen: 17
2489 Sim Starting
2490 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 436.4499999999996
2491 Ai: 6 Gen: 17
2492 Sim Starting
2493 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 393.0500000000246
2494 Ai: 7 Gen: 17
2495 Sim Starting
2496 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 189.0000000000017
2497 Ai: 8 Gen: 17
2498 Sim Starting
2499 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 283.5
2500 Ai: 9 Gen: 17
2501 Sim Starting
2502 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
2503 Ai: 10 Gen: 17
2504 Sim Starting
2505 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 212.8499999999999
2506 Ai: 11 Gen: 17
2507 Sim Starting
```

```
2508 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 403.3499999999989
2509 Ai: 12 Gen: 17
2510 Sim Starting
2511 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 558.0500000000004
2512 Ai: 13 Gen: 17
2513 Sim Starting
2514 Sim over Total pop = 0 Tick Complete = 2233
    Fitness = 50.8999999999995
2515 Ai: 14 Gen: 17
2516 Sim Starting
2517 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 547.5
2518 Ai: 15 Gen: 17
2519 Sim Starting
2520 Sim over Total pop = 0 Tick Complete = 6325
    Fitness = 742.299999999989
2521 Ai: 16 Gen: 17
2522 Sim Starting
2523 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 504.8999999999907
2524 Ai: 17 Gen: 17
2525 Sim Starting
2526 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 399.0499999999999
2527 Ai: 18 Gen: 17
2528 Sim Starting
2529 Sim over Total pop = 0 Tick Complete = 4444
    Fitness = 218.2499999999991
2530 Ai: 19 Gen: 17
2531 Sim Starting
2532 Sim over Total pop = 0 Tick Complete = 880
    Fitness = -26.400000000000006
2533 Ai: 20 Gen: 17
2534 Sim Starting
2535 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -188.2
2536 Ai: 21 Gen: 17
2537 Sim Starting
2538 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 247.8999999999986
2539 Ai: 22 Gen: 17
2540 Sim Starting
```

```
2541 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 169.04999999999995
2542 Ai: 23 Gen: 17
2543 Sim Starting
2544 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 317.05000000000035
2545 Ai: 24 Gen: 17
2546 Sim Starting
2547 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 506.3000000000002
2548 Ai: 25 Gen: 17
2549 Sim Starting
2550 Sim over Total pop = 0 Tick Complete = 5379
    Fitness = 446.6999999999989
2551 Ai: 26 Gen: 17
2552 Sim Starting
2553 Sim over Total pop = 0 Tick Complete = 3729
    Fitness = 783.7500000000001
2554 Ai: 27 Gen: 17
2555 Sim Starting
2556 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 811.4000000000038
2557 Ai: 28 Gen: 17
2558 Sim Starting
2559 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 416.7499999999994
2560 Ai: 29 Gen: 17
2561 Sim Starting
2562 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 309.2499999999991
2563 Ai: 30 Gen: 17
2564 Sim Starting
2565 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 46.5
2566 Ai: 31 Gen: 17
2567 Sim Starting
2568 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 427.2500000000007
2569 Ai: 32 Gen: 17
2570 Sim Starting
2571 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 111.8999999999998
2572 Ai: 33 Gen: 17
2573 Sim Starting
```

```
2574 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 372.0
2575 Ai: 34 Gen: 17
2576 Sim Starting
2577 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 266.55000000000007
2578 Ai: 35 Gen: 17
2579 Sim Starting
2580 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 344.6499999999975
2581 Ai: 36 Gen: 17
2582 Sim Starting
2583 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 205.9499999999948
2584 Ai: 37 Gen: 17
2585 Sim Starting
2586 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 423.4000000000174
2587 Ai: 38 Gen: 17
2588 Sim Starting
2589 Sim over Total pop = 0 Tick Complete = 2189
    Fitness = 254.4500000000084
2590 Ai: 39 Gen: 17
2591 Sim Starting
2592 Sim over Total pop = 0 Tick Complete = 4070
    Fitness = 671.649999999888
2593 Ai: 40 Gen: 17
2594 Sim Starting
2595 Sim over Total pop = 0 Tick Complete = 3146
    Fitness = 676.999999999968
2596 Ai: 41 Gen: 17
2597 Sim Starting
2598 Sim over Total pop = 0 Tick Complete = 2365
    Fitness = 609.449999999939
2599 Ai: 42 Gen: 17
2600 Sim Starting
2601 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 172.0
2602 Ai: 43 Gen: 17
2603 Sim Starting
2604 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 108.5
2605 Ai: 44 Gen: 17
2606 Sim Starting
```

```
2607 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1323.2999999999831
2608 Ai: 45 Gen: 17
2609 Sim Starting
2610 Sim over Total pop = 0 Tick Complete = 1625
    Fitness = 285.8000000000001
2611 Ai: 46 Gen: 17
2612 Sim Starting
2613 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 299.7
2614 Ai: 47 Gen: 17
2615 Sim Starting
2616 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 469.9500000000002
2617 Ai: 48 Gen: 17
2618 Sim Starting
2619 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
2620 Ai: 49 Gen: 17
2621 Sim Starting
2622 Sim over Total pop = 0 Tick Complete = 3762
    Fitness = 684.799999999995
2623 Ai: 0 Gen: 18
2624 Sim Starting
2625 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 196.699999999993
2626 Ai: 1 Gen: 18
2627 Sim Starting
2628 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -164.899999999998
2629 Ai: 2 Gen: 18
2630 Sim Starting
2631 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 325.149999999989
2632 Ai: 3 Gen: 18
2633 Sim Starting
2634 Sim over Total pop = 0 Tick Complete = 759
    Fitness = -86.4
2635 Ai: 4 Gen: 18
2636 Sim Starting
2637 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 356.30000000000194
2638 Ai: 5 Gen: 18
2639 Sim Starting
```

```
2640 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
2641 Ai: 6 Gen: 18
2642 Sim Starting
2643 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 264.75000000000114
2644 Ai: 7 Gen: 18
2645 Sim Starting
2646 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 823.7499999999993
2647 Ai: 8 Gen: 18
2648 Sim Starting
2649 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 316.5
2650 Ai: 9 Gen: 18
2651 Sim Starting
2652 Sim over Total pop = 0 Tick Complete = 2508
    Fitness = 485.9000000000034
2653 Ai: 10 Gen: 18
2654 Sim Starting
2655 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 195.5
2656 Ai: 11 Gen: 18
2657 Sim Starting
2658 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 132.5
2659 Ai: 12 Gen: 18
2660 Sim Starting
2661 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 335.0499999999998
2662 Ai: 13 Gen: 18
2663 Sim Starting
2664 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 41.4999999999996
2665 Ai: 14 Gen: 18
2666 Sim Starting
2667 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 229.0
2668 Ai: 15 Gen: 18
2669 Sim Starting
2670 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = 188.34999999999874
2671 Ai: 16 Gen: 18
2672 Sim Starting
```

```
2673 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 169.5
2674 Ai: 17 Gen: 18
2675 Sim Starting
2676 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 180.0499999999978
2677 Ai: 18 Gen: 18
2678 Sim Starting
2679 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 570.5999999999966
2680 Ai: 19 Gen: 18
2681 Sim Starting
2682 Sim over Total pop = 0 Tick Complete = 4279
    Fitness = 440.8999999999955
2683 Ai: 20 Gen: 18
2684 Sim Starting
2685 Sim over Total pop = 0 Tick Complete = 990
    Fitness = -182.5
2686 Ai: 21 Gen: 18
2687 Sim Starting
2688 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 256.25
2689 Ai: 22 Gen: 18
2690 Sim Starting
2691 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 153.6499999999992
2692 Ai: 23 Gen: 18
2693 Sim Starting
2694 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 630.65
2695 Ai: 24 Gen: 18
2696 Sim Starting
2697 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 454.0499999999757
2698 Ai: 25 Gen: 18
2699 Sim Starting
2700 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 543.9000000000007
2701 Ai: 26 Gen: 18
2702 Sim Starting
2703 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 377.5
2704 Ai: 27 Gen: 18
2705 Sim Starting
```

```
2706 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 286.9000000000003
2707 Ai: 28 Gen: 18
2708 Sim Starting
2709 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 226.5500000000003
2710 Ai: 29 Gen: 18
2711 Sim Starting
2712 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 312.75
2713 Ai: 30 Gen: 18
2714 Sim Starting
2715 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 311.5
2716 Ai: 31 Gen: 18
2717 Sim Starting
2718 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 294.3500000000008
2719 Ai: 32 Gen: 18
2720 Sim Starting
2721 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 170.9000000000086
2722 Ai: 33 Gen: 18
2723 Sim Starting
2724 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 637.0499999999996
2725 Ai: 34 Gen: 18
2726 Sim Starting
2727 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 279.6
2728 Ai: 35 Gen: 18
2729 Sim Starting
2730 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 451.7500000000256
2731 Ai: 36 Gen: 18
2732 Sim Starting
2733 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 438.7000000000016
2734 Ai: 37 Gen: 18
2735 Sim Starting
2736 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 315.4
2737 Ai: 38 Gen: 18
2738 Sim Starting
```

```
2739 Sim over Total pop = 0 Tick Complete = 2772
    Fitness = 335.85000000000001
2740 Ai: 39 Gen: 18
2741 Sim Starting
2742 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 568.3999999999999
2743 Ai: 40 Gen: 18
2744 Sim Starting
2745 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 386.5
2746 Ai: 41 Gen: 18
2747 Sim Starting
2748 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 290.5
2749 Ai: 42 Gen: 18
2750 Sim Starting
2751 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 285.0
2752 Ai: 43 Gen: 18
2753 Sim Starting
2754 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 361.0
2755 Ai: 44 Gen: 18
2756 Sim Starting
2757 Sim over Total pop = 0 Tick Complete = 3960
    Fitness = 594.7500000000057
2758 Ai: 45 Gen: 18
2759 Sim Starting
2760 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 531.6000000000005
2761 Ai: 46 Gen: 18
2762 Sim Starting
2763 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 100.75
2764 Ai: 0 Gen: 19
2765 Sim Starting
2766 Sim over Total pop = 0 Tick Complete = 781
    Fitness = -29.900000000000013
2767 Ai: 1 Gen: 19
2768 Sim Starting
2769 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -170.1
2770 Ai: 2 Gen: 19
2771 Sim Starting
```

```
2772 Sim over Total pop = 0 Tick Complete = 2827
    Fitness = 597.3499999999996
2773 Ai: 3 Gen: 19
2774 Sim Starting
2775 Sim over Total pop = 0 Tick Complete = 550
    Fitness = 70.0
2776 Ai: 4 Gen: 19
2777 Sim Starting
2778 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 410.5
2779 Ai: 5 Gen: 19
2780 Sim Starting
2781 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 246.7000000000016
2782 Ai: 6 Gen: 19
2783 Sim Starting
2784 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 416.449999999996
2785 Ai: 7 Gen: 19
2786 Sim Starting
2787 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = -17.65000000000013
2788 Ai: 8 Gen: 19
2789 Sim Starting
2790 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 205.9499999999914
2791 Ai: 9 Gen: 19
2792 Sim Starting
2793 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 361.249999999995
2794 Ai: 10 Gen: 19
2795 Sim Starting
2796 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 281.5
2797 Ai: 11 Gen: 19
2798 Sim Starting
2799 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 251.450000000001
2800 Ai: 12 Gen: 19
2801 Sim Starting
2802 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
2803 Ai: 13 Gen: 19
2804 Sim Starting
```

```
2805 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 712.1999999999999
2806 Ai: 14 Gen: 19
2807 Sim Starting
2808 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 312.5
2809 Ai: 15 Gen: 19
2810 Sim Starting
2811 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 316.0
2812 Ai: 16 Gen: 19
2813 Sim Starting
2814 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = -96.599999999998
2815 Ai: 17 Gen: 19
2816 Sim Starting
2817 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
2818 Ai: 18 Gen: 19
2819 Sim Starting
2820 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
2821 Ai: 19 Gen: 19
2822 Sim Starting
2823 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 789.55
2824 Ai: 20 Gen: 19
2825 Sim Starting
2826 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 519.7499999999998
2827 Ai: 21 Gen: 19
2828 Sim Starting
2829 Sim over Total pop = 0 Tick Complete = 6446
    Fitness = 296.0999999999735
2830 Ai: 22 Gen: 19
2831 Sim Starting
2832 Sim over Total pop = 0 Tick Complete = 6996
    Fitness = 1120.7000000000116
2833 Ai: 23 Gen: 19
2834 Sim Starting
2835 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 524.5000000000015
2836 Ai: 24 Gen: 19
2837 Sim Starting
```

```
2838 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -158.35
2839 Ai: 25 Gen: 19
2840 Sim Starting
2841 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 235.75000000000045
2842 Ai: 26 Gen: 19
2843 Sim Starting
2844 Sim over Total pop = 0 Tick Complete = 4378
    Fitness = 178.4499999999936
2845 Ai: 27 Gen: 19
2846 Sim Starting
2847 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
2848 Ai: 28 Gen: 19
2849 Sim Starting
2850 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 136.6999999999996
2851 Ai: 29 Gen: 19
2852 Sim Starting
2853 Sim over Total pop = 0 Tick Complete = 5819
    Fitness = 487.6999999999996
2854 Ai: 30 Gen: 19
2855 Sim Starting
2856 Sim over Total pop = 0 Tick Complete = 3223
    Fitness = 296.5499999999987
2857 Ai: 31 Gen: 19
2858 Sim Starting
2859 Sim over Total pop = 0 Tick Complete = 5071
    Fitness = 607.3499999999998
2860 Ai: 32 Gen: 19
2861 Sim Starting
2862 Sim over Total pop = 0 Tick Complete = 13288
    Fitness = 677.0499999999998
2863 Ai: 33 Gen: 19
2864 Sim Starting
2865 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 170.7000000000001
2866 Ai: 34 Gen: 19
2867 Sim Starting
2868 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 465.2500000000006
2869 Ai: 35 Gen: 19
2870 Sim Starting
```

```
2871 Sim over Total pop = 0 Tick Complete = 2508
    Fitness = 990.7499999999986
2872 Ai: 36 Gen: 19
2873 Sim Starting
2874 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 109.90000000000003
2875 Ai: 37 Gen: 19
2876 Sim Starting
2877 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -172.0
2878 Ai: 38 Gen: 19
2879 Sim Starting
2880 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 61.0
2881 Ai: 39 Gen: 19
2882 Sim Starting
2883 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 142.30000000000007
2884 Ai: 40 Gen: 19
2885 Sim Starting
2886 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
2887 Ai: 41 Gen: 19
2888 Sim Starting
2889 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 560.3999999999977
2890 Ai: 42 Gen: 19
2891 Sim Starting
2892 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
2893 Ai: 43 Gen: 19
2894 Sim Starting
2895 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 273.5
2896 Ai: 44 Gen: 19
2897 Sim Starting
2898 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 254.6499999999998
2899 Ai: 45 Gen: 19
2900 Sim Starting
2901 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 308.7499999999983
2902 Ai: 46 Gen: 19
2903 Sim Starting
```

```
2904 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 372.0
2905 Ai: 0 Gen: 20
2906 Sim Starting
2907 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -105.6
2908 Ai: 1 Gen: 20
2909 Sim Starting
2910 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -188.15
2911 Ai: 2 Gen: 20
2912 Sim Starting
2913 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
2914 Ai: 3 Gen: 20
2915 Sim Starting
2916 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 376.55000000000035
2917 Ai: 4 Gen: 20
2918 Sim Starting
2919 Sim over Total pop = 0 Tick Complete = 4763
    Fitness = 471.5499999999998
2920 Ai: 5 Gen: 20
2921 Sim Starting
2922 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 355.5
2923 Ai: 6 Gen: 20
2924 Sim Starting
2925 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 248.2999999999995
2926 Ai: 7 Gen: 20
2927 Sim Starting
2928 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 369.25
2929 Ai: 8 Gen: 20
2930 Sim Starting
2931 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
2932 Ai: 9 Gen: 20
2933 Sim Starting
2934 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 529.399999999999
2935 Ai: 10 Gen: 20
2936 Sim Starting
```

```
2937 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 183.5
2938 Ai: 11 Gen: 20
2939 Sim Starting
2940 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 186.7500000000002
2941 Ai: 12 Gen: 20
2942 Sim Starting
2943 Sim over Total pop = 0 Tick Complete = 5291
    Fitness = 1085.7500000000013
2944 Ai: 13 Gen: 20
2945 Sim Starting
2946 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 420.999999999983
2947 Ai: 14 Gen: 20
2948 Sim Starting
2949 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 477.40000000000344
2950 Ai: 15 Gen: 20
2951 Sim Starting
2952 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 415.75000000000057
2953 Ai: 16 Gen: 20
2954 Sim Starting
2955 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -204.0
2956 Ai: 17 Gen: 20
2957 Sim Starting
2958 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
2959 Ai: 18 Gen: 20
2960 Sim Starting
2961 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 559.05
2962 Ai: 19 Gen: 20
2963 Sim Starting
2964 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
2965 Ai: 20 Gen: 20
2966 Sim Starting
2967 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 192.5
2968 Ai: 21 Gen: 20
2969 Sim Starting
```

```
2970 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 439.0
2971 Ai: 22 Gen: 20
2972 Sim Starting
2973 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
2974 Ai: 23 Gen: 20
2975 Sim Starting
2976 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 217.0
2977 Ai: 24 Gen: 20
2978 Sim Starting
2979 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 232.8999999999998
2980 Ai: 25 Gen: 20
2981 Sim Starting
2982 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 640.100000000009
2983 Ai: 26 Gen: 20
2984 Sim Starting
2985 Sim over Total pop = 0 Tick Complete = 3960
    Fitness = 280.7
2986 Ai: 27 Gen: 20
2987 Sim Starting
2988 Sim over Total pop = 0 Tick Complete = 4081
    Fitness = 348.6
2989 Ai: 28 Gen: 20
2990 Sim Starting
2991 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 267.600000000014
2992 Ai: 29 Gen: 20
2993 Sim Starting
2994 Sim over Total pop = 0 Tick Complete = 10868
    Fitness = 650.949999999996
2995 Ai: 30 Gen: 20
2996 Sim Starting
2997 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 446.5
2998 Ai: 31 Gen: 20
2999 Sim Starting
3000 Sim over Total pop = 0 Tick Complete = 12199
    Fitness = 632.800000000001
3001 Ai: 32 Gen: 20
3002 Sim Starting
```

```
3003 Sim over Total pop = 0 Tick Complete = 2376
      Fitness = 444.5499999999998
3004 Ai: 33 Gen: 20
3005 Sim Starting
3006 Sim over Total pop = 0 Tick Complete = 836
      Fitness = 324.9
3007 Ai: 34 Gen: 20
3008 Sim Starting
3009 Sim over Total pop = 0 Tick Complete = 2090
      Fitness = 322.499999999999
3010 Ai: 35 Gen: 20
3011 Sim Starting
3012 Sim over Total pop = 0 Tick Complete = 1001
      Fitness = 319.1500000000001
3013 Ai: 36 Gen: 20
3014 Sim Starting
3015 Sim over Total pop = 0 Tick Complete = 770
      Fitness = 387.75
3016 Ai: 37 Gen: 20
3017 Sim Starting
3018 Sim over Total pop = 0 Tick Complete = 1584
      Fitness = 484.449999999995
3019 Ai: 38 Gen: 20
3020 Sim Starting
3021 Sim over Total pop = 0 Tick Complete = 6644
      Fitness = 397.6499999999543
3022 Ai: 39 Gen: 20
3023 Sim Starting
3024 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 284.0
3025 Ai: 40 Gen: 20
3026 Sim Starting
3027 Sim over Total pop = 0 Tick Complete = 1067
      Fitness = 553.749999999991
3028 Ai: 41 Gen: 20
3029 Sim Starting
3030 Sim over Total pop = 0 Tick Complete = 1067
      Fitness = 806.4000000000008
3031 Ai: 42 Gen: 20
3032 Sim Starting
3033 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 284.0
3034 Ai: 43 Gen: 20
3035 Sim Starting
```

```
3036 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
3037 Ai: 44 Gen: 20
3038 Sim Starting
3039 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 310.24999999999966
3040 Ai: 45 Gen: 20
3041 Sim Starting
3042 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 370.59999999999997
3043 Ai: 46 Gen: 20
3044 Sim Starting
3045 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 504.5000000000016
3046 Ai: 47 Gen: 20
3047 Sim Starting
3048 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -122.5
3049 Ai: 48 Gen: 20
3050 Sim Starting
3051 Sim over Total pop = 0 Tick Complete = 6347
    Fitness = 670.049999999882
3052 Ai: 49 Gen: 20
3053 Sim Starting
3054 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 158.74999999999997
3055 Ai: 50 Gen: 20
3056 Sim Starting
3057 Sim over Total pop = 0 Tick Complete = 7777
    Fitness = 1147.349999999982
3058 Ai: 51 Gen: 20
3059 Sim Starting
3060 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 179.7000000000027
3061 Ai: 52 Gen: 20
3062 Sim Starting
3063 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 1491.899999999988
3064 Ai: 0 Gen: 21
3065 Sim Starting
3066 Sim over Total pop = 0 Tick Complete = 635
    Fitness = -178.24999999999997
3067 Ai: 1 Gen: 21
3068 Sim Starting
```

```
3069 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -171.45000000000002
3070 Ai: 2 Gen: 21
3071 Sim Starting
3072 Sim over Total pop = 0 Tick Complete = 3355
    Fitness = 532.100000000008
3073 Ai: 3 Gen: 21
3074 Sim Starting
3075 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 315.0
3076 Ai: 4 Gen: 21
3077 Sim Starting
3078 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
3079 Ai: 5 Gen: 21
3080 Sim Starting
3081 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 454.5
3082 Ai: 6 Gen: 21
3083 Sim Starting
3084 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3085 Ai: 7 Gen: 21
3086 Sim Starting
3087 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 131.150000000001
3088 Ai: 8 Gen: 21
3089 Sim Starting
3090 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 337.6499999999867
3091 Ai: 9 Gen: 21
3092 Sim Starting
3093 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 285.450000000005
3094 Ai: 10 Gen: 21
3095 Sim Starting
3096 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 291.7499999999994
3097 Ai: 11 Gen: 21
3098 Sim Starting
3099 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 410.0
3100 Ai: 12 Gen: 21
3101 Sim Starting
```

```
3102 Sim over Total pop = 0 Tick Complete = 913
      Fitness = 172.6999999999997
3103 Ai: 13 Gen: 21
3104 Sim Starting
3105 Sim over Total pop = 0 Tick Complete = 583
      Fitness = -94.0
3106 Ai: 14 Gen: 21
3107 Sim Starting
3108 Sim over Total pop = 0 Tick Complete = 4180
      Fitness = 595.3
3109 Ai: 15 Gen: 21
3110 Sim Starting
3111 Sim over Total pop = 0 Tick Complete = 2552
      Fitness = 454.9999999999625
3112 Ai: 16 Gen: 21
3113 Sim Starting
3114 Sim over Total pop = 0 Tick Complete = 1573
      Fitness = 211.0000000000006
3115 Ai: 17 Gen: 21
3116 Sim Starting
3117 Sim over Total pop = 0 Tick Complete = 10098
      Fitness = 737.0500000000122
3118 Ai: 18 Gen: 21
3119 Sim Starting
3120 Sim over Total pop = 0 Tick Complete = 979
      Fitness = 272.2999999999967
3121 Ai: 19 Gen: 21
3122 Sim Starting
3123 Sim over Total pop = 0 Tick Complete = 968
      Fitness = 170.1499999999999
3124 Ai: 20 Gen: 21
3125 Sim Starting
3126 Sim over Total pop = 0 Tick Complete = 5786
      Fitness = 227.25000000000105
3127 Ai: 21 Gen: 21
3128 Sim Starting
3129 Sim over Total pop = 0 Tick Complete = 1100
      Fitness = 411.75
3130 Ai: 22 Gen: 21
3131 Sim Starting
3132 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 322.5
3133 Ai: 23 Gen: 21
3134 Sim Starting
```

```
3135 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 240.0
3136 Ai: 24 Gen: 21
3137 Sim Starting
3138 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 136.84999999999997
3139 Ai: 25 Gen: 21
3140 Sim Starting
3141 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 303.5999999999994
3142 Ai: 26 Gen: 21
3143 Sim Starting
3144 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 42.2999999999998
3145 Ai: 27 Gen: 21
3146 Sim Starting
3147 Sim over Total pop = 0 Tick Complete = 6622
    Fitness = 691.6500000000101
3148 Ai: 28 Gen: 21
3149 Sim Starting
3150 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 531.85
3151 Ai: 29 Gen: 21
3152 Sim Starting
3153 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 227.3499999999994
3154 Ai: 30 Gen: 21
3155 Sim Starting
3156 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 177.65
3157 Ai: 31 Gen: 21
3158 Sim Starting
3159 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = -30.14999999999938
3160 Ai: 32 Gen: 21
3161 Sim Starting
3162 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 311.4999999999998
3163 Ai: 33 Gen: 21
3164 Sim Starting
3165 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 146.5
3166 Ai: 34 Gen: 21
3167 Sim Starting
```

```
3168 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 159.5
3169 Ai: 35 Gen: 21
3170 Sim Starting
3171 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 302.0
3172 Ai: 36 Gen: 21
3173 Sim Starting
3174 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 416.0
3175 Ai: 37 Gen: 21
3176 Sim Starting
3177 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 488.1500000000018
3178 Ai: 38 Gen: 21
3179 Sim Starting
3180 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 774.1000000000015
3181 Ai: 39 Gen: 21
3182 Sim Starting
3183 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 1003.0
3184 Ai: 40 Gen: 21
3185 Sim Starting
3186 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 314.1499999999994
3187 Ai: 41 Gen: 21
3188 Sim Starting
3189 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 932.9000000000011
3190 Ai: 42 Gen: 21
3191 Sim Starting
3192 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 168.7000000000001
3193 Ai: 43 Gen: 21
3194 Sim Starting
3195 Sim over Total pop = 0 Tick Complete = 748
    Fitness = -76.5
3196 Ai: 44 Gen: 21
3197 Sim Starting
3198 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 293.5999999999998
3199 Ai: 45 Gen: 21
3200 Sim Starting
```

```
3201 Sim over Total pop = 0 Tick Complete = 3003
    Fitness = 324.45000000000056
3202 Ai: 46 Gen: 21
3203 Sim Starting
3204 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1521.75000000005
3205 Ai: 47 Gen: 21
3206 Sim Starting
3207 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1522.400000000052
3208 Ai: 48 Gen: 21
3209 Sim Starting
3210 Sim over Total pop = 0 Tick Complete = 687
    Fitness = -163.2999999999995
3211 Ai: 49 Gen: 21
3212 Sim Starting
3213 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 110.1999999999999
3214 Ai: 50 Gen: 21
3215 Sim Starting
3216 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = -117.7000000000005
3217 Ai: 0 Gen: 22
3218 Sim Starting
3219 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -180.6
3220 Ai: 1 Gen: 22
3221 Sim Starting
3222 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -163.45
3223 Ai: 2 Gen: 22
3224 Sim Starting
3225 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 214.3
3226 Ai: 3 Gen: 22
3227 Sim Starting
3228 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = -134.6999999999976
3229 Ai: 4 Gen: 22
3230 Sim Starting
3231 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 410.0499999999984
3232 Ai: 5 Gen: 22
3233 Sim Starting
```

```
3234 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 196.0
3235 Ai: 6 Gen: 22
3236 Sim Starting
3237 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 47.59999999999991
3238 Ai: 7 Gen: 22
3239 Sim Starting
3240 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 507.6
3241 Ai: 8 Gen: 22
3242 Sim Starting
3243 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 441.0
3244 Ai: 9 Gen: 22
3245 Sim Starting
3246 Sim over Total pop = 0 Tick Complete = 1848
    Fitness = 585.700000000003
3247 Ai: 10 Gen: 22
3248 Sim Starting
3249 Sim over Total pop = 0 Tick Complete = 3388
    Fitness = 359.7
3250 Ai: 11 Gen: 22
3251 Sim Starting
3252 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 571.200000000012
3253 Ai: 12 Gen: 22
3254 Sim Starting
3255 Sim over Total pop = 0 Tick Complete = 1408
    Fitness = 438.800000000007
3256 Ai: 13 Gen: 22
3257 Sim Starting
3258 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 330.1
3259 Ai: 14 Gen: 22
3260 Sim Starting
3261 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 440.650000000004
3262 Ai: 15 Gen: 22
3263 Sim Starting
3264 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 388.75
3265 Ai: 16 Gen: 22
3266 Sim Starting
```

```
3267 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
3268 Ai: 17 Gen: 22
3269 Sim Starting
3270 Sim over Total pop = 0 Tick Complete = 7183
    Fitness = 550.8000000000103
3271 Ai: 18 Gen: 22
3272 Sim Starting
3273 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 746.2499999999995
3274 Ai: 19 Gen: 22
3275 Sim Starting
3276 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 388.5
3277 Ai: 20 Gen: 22
3278 Sim Starting
3279 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 335.7499999999983
3280 Ai: 21 Gen: 22
3281 Sim Starting
3282 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 289.0
3283 Ai: 22 Gen: 22
3284 Sim Starting
3285 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 333.2500000000008
3286 Ai: 23 Gen: 22
3287 Sim Starting
3288 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 756.200000000002
3289 Ai: 24 Gen: 22
3290 Sim Starting
3291 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 141.0
3292 Ai: 25 Gen: 22
3293 Sim Starting
3294 Sim over Total pop = 0 Tick Complete = 2552
    Fitness = 243.8500000000006
3295 Ai: 26 Gen: 22
3296 Sim Starting
3297 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 137.3999999999998
3298 Ai: 27 Gen: 22
3299 Sim Starting
```

```
3300 Sim over Total pop = 0 Tick Complete = 3113
    Fitness = 765.1999999999994
3301 Ai: 28 Gen: 22
3302 Sim Starting
3303 Sim over Total pop = 0 Tick Complete = 4378
    Fitness = 1734.8500000000154
3304 Ai: 29 Gen: 22
3305 Sim Starting
3306 Sim over Total pop = 0 Tick Complete = 3300
    Fitness = 277.35
3307 Ai: 30 Gen: 22
3308 Sim Starting
3309 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 545.600000000029
3310 Ai: 31 Gen: 22
3311 Sim Starting
3312 Sim over Total pop = 0 Tick Complete = 858
    Fitness = -5.74999999999767
3313 Ai: 32 Gen: 22
3314 Sim Starting
3315 Sim over Total pop = 0 Tick Complete = 6622
    Fitness = 469.050000000056
3316 Ai: 33 Gen: 22
3317 Sim Starting
3318 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 279.500000000006
3319 Ai: 34 Gen: 22
3320 Sim Starting
3321 Sim over Total pop = 0 Tick Complete = 8261
    Fitness = 676.24999999993
3322 Ai: 35 Gen: 22
3323 Sim Starting
3324 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 391.7000000000164
3325 Ai: 36 Gen: 22
3326 Sim Starting
3327 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 243.650000000001
3328 Ai: 37 Gen: 22
3329 Sim Starting
3330 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 212.099999999999
3331 Ai: 38 Gen: 22
3332 Sim Starting
```

```
3333 Sim over Total pop = 0 Tick Complete = 1309
      Fitness = 286.54999999999995
3334 Ai: 39 Gen: 22
3335 Sim Starting
3336 Sim over Total pop = 0 Tick Complete = 1485
      Fitness = 351.55000000000024
3337 Ai: 40 Gen: 22
3338 Sim Starting
3339 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 256.5
3340 Ai: 41 Gen: 22
3341 Sim Starting
3342 Sim over Total pop = 0 Tick Complete = 2035
      Fitness = 916.799999999979
3343 Ai: 42 Gen: 22
3344 Sim Starting
3345 Sim over Total pop = 0 Tick Complete = 737
      Fitness = -131.8
3346 Ai: 43 Gen: 22
3347 Sim Starting
3348 Sim over Total pop = 0 Tick Complete = 1199
      Fitness = 327.35000000000025
3349 Ai: 44 Gen: 22
3350 Sim Starting
3351 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 322.5
3352 Ai: 45 Gen: 22
3353 Sim Starting
3354 Sim over Total pop = 0 Tick Complete = 2882
      Fitness = 378.0000000000027
3355 Ai: 46 Gen: 22
3356 Sim Starting
3357 Sim over Total pop = 0 Tick Complete = 1914
      Fitness = 441.6999999999794
3358 Ai: 47 Gen: 22
3359 Sim Starting
3360 Sim over Total pop = 0 Tick Complete = 3388
      Fitness = 764.8499999999967
3361 Ai: 48 Gen: 22
3362 Sim Starting
3363 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 256.5
3364 Ai: 49 Gen: 22
3365 Sim Starting
```

```
3366 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 39.09999999999998
3367 Ai: 50 Gen: 22
3368 Sim Starting
3369 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 300.7
3370 Ai: 0 Gen: 23
3371 Sim Starting
3372 Sim over Total pop = 0 Tick Complete = 770
    Fitness = -49.3499999999988
3373 Ai: 1 Gen: 23
3374 Sim Starting
3375 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -154.8
3376 Ai: 2 Gen: 23
3377 Sim Starting
3378 Sim over Total pop = 0 Tick Complete = 14300
    Fitness = 741.500000000175
3379 Ai: 3 Gen: 23
3380 Sim Starting
3381 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 316.550000000034
3382 Ai: 4 Gen: 23
3383 Sim Starting
3384 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 268.450000000005
3385 Ai: 5 Gen: 23
3386 Sim Starting
3387 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 447.9500000000016
3388 Ai: 6 Gen: 23
3389 Sim Starting
3390 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 31.800000000001
3391 Ai: 7 Gen: 23
3392 Sim Starting
3393 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 130.0
3394 Ai: 8 Gen: 23
3395 Sim Starting
3396 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 152.0
3397 Ai: 9 Gen: 23
3398 Sim Starting
```

```
3399 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 169.65000000000003
3400 Ai: 10 Gen: 23
3401 Sim Starting
3402 Sim over Total pop = 0 Tick Complete = 2585
    Fitness = 255.0499999999887
3403 Ai: 11 Gen: 23
3404 Sim Starting
3405 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 378.75
3406 Ai: 12 Gen: 23
3407 Sim Starting
3408 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 54.69999999999999
3409 Ai: 13 Gen: 23
3410 Sim Starting
3411 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3412 Ai: 14 Gen: 23
3413 Sim Starting
3414 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 641.400000000001
3415 Ai: 15 Gen: 23
3416 Sim Starting
3417 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
3418 Ai: 16 Gen: 23
3419 Sim Starting
3420 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
3421 Ai: 17 Gen: 23
3422 Sim Starting
3423 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
3424 Ai: 18 Gen: 23
3425 Sim Starting
3426 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 269.5
3427 Ai: 19 Gen: 23
3428 Sim Starting
3429 Sim over Total pop = 0 Tick Complete = 9790
    Fitness = 968.45
3430 Ai: 20 Gen: 23
3431 Sim Starting
```

```
3432 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 334.79999999999967
3433 Ai: 21 Gen: 23
3434 Sim Starting
3435 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 159.0499999999984
3436 Ai: 22 Gen: 23
3437 Sim Starting
3438 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 125.0
3439 Ai: 23 Gen: 23
3440 Sim Starting
3441 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 284.399999999999
3442 Ai: 24 Gen: 23
3443 Sim Starting
3444 Sim over Total pop = 0 Tick Complete = 3311
    Fitness = 341.4499999999624
3445 Ai: 25 Gen: 23
3446 Sim Starting
3447 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = -50.7499999999967
3448 Ai: 26 Gen: 23
3449 Sim Starting
3450 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -180.0
3451 Ai: 27 Gen: 23
3452 Sim Starting
3453 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 251.8000000000058
3454 Ai: 28 Gen: 23
3455 Sim Starting
3456 Sim over Total pop = 0 Tick Complete = 8580
    Fitness = 566.149999999897
3457 Ai: 29 Gen: 23
3458 Sim Starting
3459 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3460 Ai: 30 Gen: 23
3461 Sim Starting
3462 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 300.75
3463 Ai: 31 Gen: 23
3464 Sim Starting
```

```
3465 Sim over Total pop = 0 Tick Complete = 4631
    Fitness = 617.0000000000027
3466 Ai: 32 Gen: 23
3467 Sim Starting
3468 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 365.55000000000007
3469 Ai: 33 Gen: 23
3470 Sim Starting
3471 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 318.3499999999999
3472 Ai: 34 Gen: 23
3473 Sim Starting
3474 Sim over Total pop = 0 Tick Complete = 5115
    Fitness = 1153.0499999999888
3475 Ai: 35 Gen: 23
3476 Sim Starting
3477 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 189.2
3478 Ai: 36 Gen: 23
3479 Sim Starting
3480 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 773.399999999996
3481 Ai: 37 Gen: 23
3482 Sim Starting
3483 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 410.649999999991
3484 Ai: 38 Gen: 23
3485 Sim Starting
3486 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 184.0
3487 Ai: 39 Gen: 23
3488 Sim Starting
3489 Sim over Total pop = 0 Tick Complete = 5599
    Fitness = 1179.799999999847
3490 Ai: 40 Gen: 23
3491 Sim Starting
3492 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 111.3500000000002
3493 Ai: 41 Gen: 23
3494 Sim Starting
3495 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 324.0499999999999
3496 Ai: 42 Gen: 23
3497 Sim Starting
```

```
3498 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 197.79999999999995
3499 Ai: 43 Gen: 23
3500 Sim Starting
3501 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 413.5499999999987
3502 Ai: 44 Gen: 23
3503 Sim Starting
3504 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = -29.69999999999942
3505 Ai: 45 Gen: 23
3506 Sim Starting
3507 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
3508 Ai: 46 Gen: 23
3509 Sim Starting
3510 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = -10.40000000000219
3511 Ai: 47 Gen: 23
3512 Sim Starting
3513 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 138.9999999999983
3514 Ai: 48 Gen: 23
3515 Sim Starting
3516 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 130.3999999999998
3517 Ai: 0 Gen: 24
3518 Sim Starting
3519 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -157.55
3520 Ai: 1 Gen: 24
3521 Sim Starting
3522 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -153.7000000000002
3523 Ai: 2 Gen: 24
3524 Sim Starting
3525 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 233.0
3526 Ai: 3 Gen: 24
3527 Sim Starting
3528 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 371.5
3529 Ai: 4 Gen: 24
3530 Sim Starting
```

```
3531 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 674.5499999999982
3532 Ai: 5 Gen: 24
3533 Sim Starting
3534 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 324.4500000000001
3535 Ai: 6 Gen: 24
3536 Sim Starting
3537 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 165.15
3538 Ai: 7 Gen: 24
3539 Sim Starting
3540 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 88.9999999999991
3541 Ai: 8 Gen: 24
3542 Sim Starting
3543 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = -33.15
3544 Ai: 9 Gen: 24
3545 Sim Starting
3546 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 163.7499999999999
3547 Ai: 10 Gen: 24
3548 Sim Starting
3549 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 208.0499999999998
3550 Ai: 11 Gen: 24
3551 Sim Starting
3552 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 0.5500000000000185
3553 Ai: 12 Gen: 24
3554 Sim Starting
3555 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 545.2500000000017
3556 Ai: 13 Gen: 24
3557 Sim Starting
3558 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
3559 Ai: 14 Gen: 24
3560 Sim Starting
3561 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
3562 Ai: 15 Gen: 24
3563 Sim Starting
```

```
3564 Sim over Total pop = 0 Tick Complete = 6061
    Fitness = 488.0999999999971
3565 Ai: 16 Gen: 24
3566 Sim Starting
3567 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 199.75000000000003
3568 Ai: 17 Gen: 24
3569 Sim Starting
3570 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 299.4999999999999
3571 Ai: 18 Gen: 24
3572 Sim Starting
3573 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 106.25
3574 Ai: 19 Gen: 24
3575 Sim Starting
3576 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 352.6999999999993
3577 Ai: 20 Gen: 24
3578 Sim Starting
3579 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 221.1000000000008
3580 Ai: 21 Gen: 24
3581 Sim Starting
3582 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -21.94999999999996
3583 Ai: 22 Gen: 24
3584 Sim Starting
3585 Sim over Total pop = 0 Tick Complete = 4312
    Fitness = 550.649999999995
3586 Ai: 23 Gen: 24
3587 Sim Starting
3588 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = -14.69999999999847
3589 Ai: 24 Gen: 24
3590 Sim Starting
3591 Sim over Total pop = 0 Tick Complete = 15928
    Fitness = 1669.80000000042
3592 Ai: 25 Gen: 24
3593 Sim Starting
3594 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 524.799999999996
3595 Ai: 26 Gen: 24
3596 Sim Starting
```

```
3597 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 88.5
3598 Ai: 27 Gen: 24
3599 Sim Starting
3600 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = -79.1
3601 Ai: 28 Gen: 24
3602 Sim Starting
3603 Sim over Total pop = 0 Tick Complete = 5214
    Fitness = 455.5
3604 Ai: 29 Gen: 24
3605 Sim Starting
3606 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 370.25
3607 Ai: 30 Gen: 24
3608 Sim Starting
3609 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3610 Ai: 31 Gen: 24
3611 Sim Starting
3612 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 167.0
3613 Ai: 32 Gen: 24
3614 Sim Starting
3615 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
3616 Ai: 33 Gen: 24
3617 Sim Starting
3618 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 212.5
3619 Ai: 34 Gen: 24
3620 Sim Starting
3621 Sim over Total pop = 0 Tick Complete = 3652
    Fitness = 81.6999999999946
3622 Ai: 35 Gen: 24
3623 Sim Starting
3624 Sim over Total pop = 0 Tick Complete = 4444
    Fitness = 454.9999999999994
3625 Ai: 36 Gen: 24
3626 Sim Starting
3627 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 289.9000000000011
3628 Ai: 37 Gen: 24
3629 Sim Starting
```

```
3630 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 619.3499999999989
3631 Ai: 38 Gen: 24
3632 Sim Starting
3633 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 250.0
3634 Ai: 39 Gen: 24
3635 Sim Starting
3636 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 426.3000000000007
3637 Ai: 40 Gen: 24
3638 Sim Starting
3639 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 536.6499999999993
3640 Ai: 41 Gen: 24
3641 Sim Starting
3642 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = -44.6000000000002
3643 Ai: 42 Gen: 24
3644 Sim Starting
3645 Sim over Total pop = 0 Tick Complete = 3146
    Fitness = 986.7500000000055
3646 Ai: 43 Gen: 24
3647 Sim Starting
3648 Sim over Total pop = 0 Tick Complete = 2365
    Fitness = 483.6500000000008
3649 Ai: 44 Gen: 24
3650 Sim Starting
3651 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 579.5000000000057
3652 Ai: 45 Gen: 24
3653 Sim Starting
3654 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 190.5
3655 Ai: 46 Gen: 24
3656 Sim Starting
3657 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 341.4500000000005
3658 Ai: 47 Gen: 24
3659 Sim Starting
3660 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 377.5
3661 Ai: 48 Gen: 24
3662 Sim Starting
```

```
3663 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3664 Ai: 49 Gen: 24
3665 Sim Starting
3666 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 186.75
3667 Ai: 50 Gen: 24
3668 Sim Starting
3669 Sim over Total pop = 0 Tick Complete = 5258
    Fitness = 833.9000000000091
3670 Ai: 51 Gen: 24
3671 Sim Starting
3672 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
3673 Ai: 52 Gen: 24
3674 Sim Starting
3675 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 256.95
3676 Ai: 0 Gen: 25
3677 Sim Starting
3678 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 213.4999999999977
3679 Ai: 1 Gen: 25
3680 Sim Starting
3681 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3682 Ai: 2 Gen: 25
3683 Sim Starting
3684 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 305.1000000000003
3685 Ai: 3 Gen: 25
3686 Sim Starting
3687 Sim over Total pop = 0 Tick Complete = 2233
    Fitness = 282.75
3688 Ai: 4 Gen: 25
3689 Sim Starting
3690 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -95.0
3691 Ai: 5 Gen: 25
3692 Sim Starting
3693 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 231.0
3694 Ai: 6 Gen: 25
3695 Sim Starting
```

```
3696 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 221.04999999999984
3697 Ai: 7 Gen: 25
3698 Sim Starting
3699 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
3700 Ai: 8 Gen: 25
3701 Sim Starting
3702 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 465.0
3703 Ai: 9 Gen: 25
3704 Sim Starting
3705 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
3706 Ai: 10 Gen: 25
3707 Sim Starting
3708 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
3709 Ai: 11 Gen: 25
3710 Sim Starting
3711 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 212.5
3712 Ai: 12 Gen: 25
3713 Sim Starting
3714 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 670.0
3715 Ai: 13 Gen: 25
3716 Sim Starting
3717 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 505.15000000000055
3718 Ai: 14 Gen: 25
3719 Sim Starting
3720 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 142.0
3721 Ai: 15 Gen: 25
3722 Sim Starting
3723 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -113.19999999999997
3724 Ai: 16 Gen: 25
3725 Sim Starting
3726 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3727 Ai: 17 Gen: 25
3728 Sim Starting
```

```
3729 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 273.0
3730 Ai: 18 Gen: 25
3731 Sim Starting
3732 Sim over Total pop = 0 Tick Complete = 3333
    Fitness = 358.59999999999746
3733 Ai: 19 Gen: 25
3734 Sim Starting
3735 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = -39.7
3736 Ai: 20 Gen: 25
3737 Sim Starting
3738 Sim over Total pop = 0 Tick Complete = 6094
    Fitness = 556.649999999998
3739 Ai: 21 Gen: 25
3740 Sim Starting
3741 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 437.399999999998
3742 Ai: 22 Gen: 25
3743 Sim Starting
3744 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 341.600000000001
3745 Ai: 23 Gen: 25
3746 Sim Starting
3747 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 105.80000000000001
3748 Ai: 24 Gen: 25
3749 Sim Starting
3750 Sim over Total pop = 0 Tick Complete = 2090
    Fitness = 299.5000000000009
3751 Ai: 25 Gen: 25
3752 Sim Starting
3753 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 136.5
3754 Ai: 26 Gen: 25
3755 Sim Starting
3756 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 114.5
3757 Ai: 27 Gen: 25
3758 Sim Starting
3759 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 196.30000000000027
3760 Ai: 28 Gen: 25
3761 Sim Starting
```

```
3762 Sim over Total pop = 0 Tick Complete = 4378
    Fitness = 436.59999999999667
3763 Ai: 29 Gen: 25
3764 Sim Starting
3765 Sim over Total pop = 0 Tick Complete = 5478
    Fitness = 364.5
3766 Ai: 30 Gen: 25
3767 Sim Starting
3768 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 386.6500000000003
3769 Ai: 31 Gen: 25
3770 Sim Starting
3771 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 262.25
3772 Ai: 32 Gen: 25
3773 Sim Starting
3774 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 367.450000000001
3775 Ai: 33 Gen: 25
3776 Sim Starting
3777 Sim over Total pop = 0 Tick Complete = 2057
    Fitness = 794.750000000014
3778 Ai: 34 Gen: 25
3779 Sim Starting
3780 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
3781 Ai: 35 Gen: 25
3782 Sim Starting
3783 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 284.9
3784 Ai: 36 Gen: 25
3785 Sim Starting
3786 Sim over Total pop = 0 Tick Complete = 5346
    Fitness = 677.299999999986
3787 Ai: 37 Gen: 25
3788 Sim Starting
3789 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 132.3500000000042
3790 Ai: 38 Gen: 25
3791 Sim Starting
3792 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 404.5
3793 Ai: 39 Gen: 25
3794 Sim Starting
```

```
3795 Sim over Total pop = 0 Tick Complete = 3157
    Fitness = 748.8499999999935
3796 Ai: 40 Gen: 25
3797 Sim Starting
3798 Sim over Total pop = 0 Tick Complete = 11440
    Fitness = 764.399999999825
3799 Ai: 41 Gen: 25
3800 Sim Starting
3801 Sim over Total pop = 0 Tick Complete = 6413
    Fitness = 678.199999999971
3802 Ai: 42 Gen: 25
3803 Sim Starting
3804 Sim over Total pop = 0 Tick Complete = 3696
    Fitness = 429.0
3805 Ai: 43 Gen: 25
3806 Sim Starting
3807 Sim over Total pop = 0 Tick Complete = 748
    Fitness = -154.0
3808 Ai: 44 Gen: 25
3809 Sim Starting
3810 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 272.3499999999997
3811 Ai: 45 Gen: 25
3812 Sim Starting
3813 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 392.3500000000001
3814 Ai: 46 Gen: 25
3815 Sim Starting
3816 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 622.0000000000001
3817 Ai: 47 Gen: 25
3818 Sim Starting
3819 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 391.6000000000014
3820 Ai: 0 Gen: 26
3821 Sim Starting
3822 Sim over Total pop = 0 Tick Complete = 3773
    Fitness = 483.9500000000059
3823 Ai: 1 Gen: 26
3824 Sim Starting
3825 Sim over Total pop = 0 Tick Complete = 4763
    Fitness = 311.2
3826 Ai: 2 Gen: 26
3827 Sim Starting
```

```
3828 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 231.800000000000007
3829 Ai: 3 Gen: 26
3830 Sim Starting
3831 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 162.450000000000007
3832 Ai: 4 Gen: 26
3833 Sim Starting
3834 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 152.0
3835 Ai: 5 Gen: 26
3836 Sim Starting
3837 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -204.0
3838 Ai: 6 Gen: 26
3839 Sim Starting
3840 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 148.0
3841 Ai: 7 Gen: 26
3842 Sim Starting
3843 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 498.4
3844 Ai: 8 Gen: 26
3845 Sim Starting
3846 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 215.5
3847 Ai: 9 Gen: 26
3848 Sim Starting
3849 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
3850 Ai: 10 Gen: 26
3851 Sim Starting
3852 Sim over Total pop = 0 Tick Complete = 3267
    Fitness = 720.449999999942
3853 Ai: 11 Gen: 26
3854 Sim Starting
3855 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 436.9499999999996
3856 Ai: 12 Gen: 26
3857 Sim Starting
3858 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 470.9999999999903
3859 Ai: 13 Gen: 26
3860 Sim Starting
```

```
3861 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 310.3499999999978
3862 Ai: 14 Gen: 26
3863 Sim Starting
3864 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 386.0
3865 Ai: 15 Gen: 26
3866 Sim Starting
3867 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
3868 Ai: 16 Gen: 26
3869 Sim Starting
3870 Sim over Total pop = 0 Tick Complete = 759
    Fitness = -129.3
3871 Ai: 17 Gen: 26
3872 Sim Starting
3873 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 294.700000000002
3874 Ai: 18 Gen: 26
3875 Sim Starting
3876 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 132.99999999999997
3877 Ai: 19 Gen: 26
3878 Sim Starting
3879 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 278.0999999999826
3880 Ai: 20 Gen: 26
3881 Sim Starting
3882 Sim over Total pop = 0 Tick Complete = 7403
    Fitness = 728.649999999989
3883 Ai: 21 Gen: 26
3884 Sim Starting
3885 Sim over Total pop = 0 Tick Complete = 7612
    Fitness = 584.799999999986
3886 Ai: 22 Gen: 26
3887 Sim Starting
3888 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 291.6000000000036
3889 Ai: 23 Gen: 26
3890 Sim Starting
3891 Sim over Total pop = 0 Tick Complete = 10978
    Fitness = 1200.4000000000046
3892 Ai: 24 Gen: 26
3893 Sim Starting
```

```
3894 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 449.4499999999968
3895 Ai: 25 Gen: 26
3896 Sim Starting
3897 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
3898 Ai: 26 Gen: 26
3899 Sim Starting
3900 Sim over Total pop = 0 Tick Complete = 5478
    Fitness = 188.75000000000014
3901 Ai: 27 Gen: 26
3902 Sim Starting
3903 Sim over Total pop = 0 Tick Complete = 2035
    Fitness = 79.50000000000023
3904 Ai: 28 Gen: 26
3905 Sim Starting
3906 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 190.8999999999998
3907 Ai: 29 Gen: 26
3908 Sim Starting
3909 Sim over Total pop = 0 Tick Complete = 2332
    Fitness = 263.00000000000085
3910 Ai: 30 Gen: 26
3911 Sim Starting
3912 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -103.85
3913 Ai: 31 Gen: 26
3914 Sim Starting
3915 Sim over Total pop = 0 Tick Complete = 6138
    Fitness = 1137.899999999994
3916 Ai: 32 Gen: 26
3917 Sim Starting
3918 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 320.25
3919 Ai: 33 Gen: 26
3920 Sim Starting
3921 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 528.699999999985
3922 Ai: 34 Gen: 26
3923 Sim Starting
3924 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 328.4999999999864
3925 Ai: 35 Gen: 26
3926 Sim Starting
```

```
3927 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 169.40000000000006
3928 Ai: 36 Gen: 26
3929 Sim Starting
3930 Sim over Total pop = 0 Tick Complete = 9702
    Fitness = 1115.7000000000007
3931 Ai: 37 Gen: 26
3932 Sim Starting
3933 Sim over Total pop = 0 Tick Complete = 4081
    Fitness = 576.1499999999992
3934 Ai: 38 Gen: 26
3935 Sim Starting
3936 Sim over Total pop = 0 Tick Complete = 2827
    Fitness = 452.54999999999916
3937 Ai: 39 Gen: 26
3938 Sim Starting
3939 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 317.0
3940 Ai: 40 Gen: 26
3941 Sim Starting
3942 Sim over Total pop = 0 Tick Complete = 2816
    Fitness = 1076.8499999999963
3943 Ai: 41 Gen: 26
3944 Sim Starting
3945 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 197.0
3946 Ai: 42 Gen: 26
3947 Sim Starting
3948 Sim over Total pop = 0 Tick Complete = 14168
    Fitness = 1947.199999999498
3949 Ai: 43 Gen: 26
3950 Sim Starting
3951 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = -120.3
3952 Ai: 44 Gen: 26
3953 Sim Starting
3954 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 696.050000000002
3955 Ai: 45 Gen: 26
3956 Sim Starting
3957 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 124.0
3958 Ai: 46 Gen: 26
3959 Sim Starting
```

```
3960 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 404.6
3961 Ai: 47 Gen: 26
3962 Sim Starting
3963 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 799.099999999993
3964 Ai: 48 Gen: 26
3965 Sim Starting
3966 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 267.5
3967 Ai: 49 Gen: 26
3968 Sim Starting
3969 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 336.6000000000065
3970 Ai: 50 Gen: 26
3971 Sim Starting
3972 Sim over Total pop = 0 Tick Complete = 18062
    Fitness = 1086.9500000000153
3973 Ai: 0 Gen: 27
3974 Sim Starting
3975 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 116.4499999999996
3976 Ai: 1 Gen: 27
3977 Sim Starting
3978 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 263.799999999997
3979 Ai: 2 Gen: 27
3980 Sim Starting
3981 Sim over Total pop = 0 Tick Complete = 5236
    Fitness = 1230.5999999999908
3982 Ai: 3 Gen: 27
3983 Sim Starting
3984 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 595.9500000000028
3985 Ai: 4 Gen: 27
3986 Sim Starting
3987 Sim over Total pop = 0 Tick Complete = 3003
    Fitness = 245.0500000000007
3988 Ai: 5 Gen: 27
3989 Sim Starting
3990 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 329.9499999999981
3991 Ai: 6 Gen: 27
3992 Sim Starting
```

```
3993 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3994 Ai: 7 Gen: 27
3995 Sim Starting
3996 Sim over Total pop = 0 Tick Complete = 2629
    Fitness = 325.6499999999924
3997 Ai: 8 Gen: 27
3998 Sim Starting
3999 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 652.349999999987
4000 Ai: 9 Gen: 27
4001 Sim Starting
4002 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 322.0
4003 Ai: 10 Gen: 27
4004 Sim Starting
4005 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 505.049999999994
4006 Ai: 11 Gen: 27
4007 Sim Starting
4008 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 206.9500000000084
4009 Ai: 12 Gen: 27
4010 Sim Starting
4011 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 12.64999999999991
4012 Ai: 13 Gen: 27
4013 Sim Starting
4014 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 101.25
4015 Ai: 14 Gen: 27
4016 Sim Starting
4017 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 456.249999999999
4018 Ai: 15 Gen: 27
4019 Sim Starting
4020 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 307.0499999999984
4021 Ai: 16 Gen: 27
4022 Sim Starting
4023 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 207.6999999999987
4024 Ai: 17 Gen: 27
4025 Sim Starting
```

```
4026 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 307.5000000000004
4027 Ai: 18 Gen: 27
4028 Sim Starting
4029 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 603.000000000027
4030 Ai: 19 Gen: 27
4031 Sim Starting
4032 Sim over Total pop = 0 Tick Complete = 2981
    Fitness = 213.5
4033 Ai: 20 Gen: 27
4034 Sim Starting
4035 Sim over Total pop = 0 Tick Complete = 3201
    Fitness = 754.150000000044
4036 Ai: 21 Gen: 27
4037 Sim Starting
4038 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 337.200000000033
4039 Ai: 22 Gen: 27
4040 Sim Starting
4041 Sim over Total pop = 0 Tick Complete = 10769
    Fitness = 644.300000000011
4042 Ai: 23 Gen: 27
4043 Sim Starting
4044 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 246.0
4045 Ai: 24 Gen: 27
4046 Sim Starting
4047 Sim over Total pop = 0 Tick Complete = 4092
    Fitness = 421.2500000000153
4048 Ai: 25 Gen: 27
4049 Sim Starting
4050 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1206.700000000003
4051 Ai: 26 Gen: 27
4052 Sim Starting
4053 Sim over Total pop = 0 Tick Complete = 8478
    Fitness = 1039.2999999999843
4054 Ai: 27 Gen: 27
4055 Sim Starting
4056 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 167.6
4057 Ai: 28 Gen: 27
4058 Sim Starting
```

```
4059 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -15.599999999999975
4060 Ai: 29 Gen: 27
4061 Sim Starting
4062 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1295.8999999999783
4063 Ai: 30 Gen: 27
4064 Sim Starting
4065 Sim over Total pop = 0 Tick Complete = 899
    Fitness = -129.1499999999998
4066 Ai: 31 Gen: 27
4067 Sim Starting
4068 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -152.8
4069 Ai: 32 Gen: 27
4070 Sim Starting
4071 Sim over Total pop = 0 Tick Complete = 2816
    Fitness = 59.25
4072 Ai: 33 Gen: 27
4073 Sim Starting
4074 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 212.8999999999947
4075 Ai: 34 Gen: 27
4076 Sim Starting
4077 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 271.25000000000006
4078 Ai: 35 Gen: 27
4079 Sim Starting
4080 Sim over Total pop = 0 Tick Complete = 6072
    Fitness = 415.399999999955
4081 Ai: 36 Gen: 27
4082 Sim Starting
4083 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 196.5
4084 Ai: 37 Gen: 27
4085 Sim Starting
4086 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 402.3500000000006
4087 Ai: 38 Gen: 27
4088 Sim Starting
4089 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 170.8999999999995
4090 Ai: 39 Gen: 27
4091 Sim Starting
```

```
4092 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 231.500000000000006
4093 Ai: 40 Gen: 27
4094 Sim Starting
4095 Sim over Total pop = 0 Tick Complete = 8602
    Fitness = 1586.19999999999614
4096 Ai: 41 Gen: 27
4097 Sim Starting
4098 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
4099 Ai: 42 Gen: 27
4100 Sim Starting
4101 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 153.2
4102 Ai: 43 Gen: 27
4103 Sim Starting
4104 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 328.15
4105 Ai: 44 Gen: 27
4106 Sim Starting
4107 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 372.8499999999989
4108 Ai: 45 Gen: 27
4109 Sim Starting
4110 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 372.0
4111 Ai: 46 Gen: 27
4112 Sim Starting
4113 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 234.5
4114 Ai: 0 Gen: 28
4115 Sim Starting
4116 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 308.3
4117 Ai: 1 Gen: 28
4118 Sim Starting
4119 Sim over Total pop = 0 Tick Complete = 770
    Fitness = -119.850000000000002
4120 Ai: 2 Gen: 28
4121 Sim Starting
4122 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = -86.55
4123 Ai: 3 Gen: 28
4124 Sim Starting
```

```
4125 Sim over Total pop = 0 Tick Complete = 5775
    Fitness = 450.9499999999968
4126 Ai: 4 Gen: 28
4127 Sim Starting
4128 Sim over Total pop = 0 Tick Complete = 3443
    Fitness = 107.2999999999953
4129 Ai: 5 Gen: 28
4130 Sim Starting
4131 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 307.8499999999998
4132 Ai: 6 Gen: 28
4133 Sim Starting
4134 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 707.7999999999988
4135 Ai: 7 Gen: 28
4136 Sim Starting
4137 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
4138 Ai: 8 Gen: 28
4139 Sim Starting
4140 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 206.05000000000018
4141 Ai: 9 Gen: 28
4142 Sim Starting
4143 Sim over Total pop = 0 Tick Complete = 3619
    Fitness = 508.2499999999951
4144 Ai: 10 Gen: 28
4145 Sim Starting
4146 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 327.7999999999643
4147 Ai: 11 Gen: 28
4148 Sim Starting
4149 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 326.95000000000056
4150 Ai: 12 Gen: 28
4151 Sim Starting
4152 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 96.5
4153 Ai: 13 Gen: 28
4154 Sim Starting
4155 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 134.6999999999993
4156 Ai: 14 Gen: 28
4157 Sim Starting
```

```
4158 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -196.15
4159 Ai: 15 Gen: 28
4160 Sim Starting
4161 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 163.2999999999967
4162 Ai: 16 Gen: 28
4163 Sim Starting
4164 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 359.5000000000016
4165 Ai: 17 Gen: 28
4166 Sim Starting
4167 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 459.7499999999991
4168 Ai: 18 Gen: 28
4169 Sim Starting
4170 Sim over Total pop = 0 Tick Complete = 13255
    Fitness = 785.9
4171 Ai: 19 Gen: 28
4172 Sim Starting
4173 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
4174 Ai: 20 Gen: 28
4175 Sim Starting
4176 Sim over Total pop = 0 Tick Complete = 3883
    Fitness = 335.3999999999966
4177 Ai: 21 Gen: 28
4178 Sim Starting
4179 Sim over Total pop = 0 Tick Complete = 3091
    Fitness = 394.6499999999935
4180 Ai: 22 Gen: 28
4181 Sim Starting
4182 Sim over Total pop = 0 Tick Complete = 6039
    Fitness = 518.5
4183 Ai: 23 Gen: 28
4184 Sim Starting
4185 Sim over Total pop = 0 Tick Complete = 3234
    Fitness = 844.6999999999975
4186 Ai: 24 Gen: 28
4187 Sim Starting
4188 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 440.0
4189 Ai: 25 Gen: 28
4190 Sim Starting
```

```
4191 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 766.0499999999973
4192 Ai: 26 Gen: 28
4193 Sim Starting
4194 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1264.0500000000008
4195 Ai: 27 Gen: 28
4196 Sim Starting
4197 Sim over Total pop = 0 Tick Complete = 2252
    Fitness = 339.2999999999985
4198 Ai: 28 Gen: 28
4199 Sim Starting
4200 Sim over Total pop = 0 Tick Complete = 13893
    Fitness = 1011.8000000000002
4201 Ai: 29 Gen: 28
4202 Sim Starting
4203 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 119.3000000000001
4204 Ai: 30 Gen: 28
4205 Sim Starting
4206 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 608.7500000000007
4207 Ai: 31 Gen: 28
4208 Sim Starting
4209 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 237.1999999999996
4210 Ai: 32 Gen: 28
4211 Sim Starting
4212 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 199.9000000000032
4213 Ai: 33 Gen: 28
4214 Sim Starting
4215 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 203.5999999999997
4216 Ai: 34 Gen: 28
4217 Sim Starting
4218 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 67.8000000000027
4219 Ai: 35 Gen: 28
4220 Sim Starting
4221 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = -33.150000000000006
4222 Ai: 36 Gen: 28
4223 Sim Starting
```

```
4224 Sim over Total pop = 0 Tick Complete = 2233
    Fitness = 649.1500000000042
4225 Ai: 37 Gen: 28
4226 Sim Starting
4227 Sim over Total pop = 0 Tick Complete = 3575
    Fitness = 429.0999999999996
4228 Ai: 38 Gen: 28
4229 Sim Starting
4230 Sim over Total pop = 0 Tick Complete = 913
    Fitness = -148.15
4231 Ai: 39 Gen: 28
4232 Sim Starting
4233 Sim over Total pop = 0 Tick Complete = 3399
    Fitness = 117.8499999999988
4234 Ai: 40 Gen: 28
4235 Sim Starting
4236 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 142.05000000000007
4237 Ai: 41 Gen: 28
4238 Sim Starting
4239 Sim over Total pop = 0 Tick Complete = 7392
    Fitness = 992.4500000000033
4240 Ai: 42 Gen: 28
4241 Sim Starting
4242 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 178.5
4243 Ai: 43 Gen: 28
4244 Sim Starting
4245 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 159.1499999999992
4246 Ai: 44 Gen: 28
4247 Sim Starting
4248 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 576.949999999991
4249 Ai: 45 Gen: 28
4250 Sim Starting
4251 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 552.7000000000005
4252 Ai: 46 Gen: 28
4253 Sim Starting
4254 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 269.05
4255 Ai: 0 Gen: 29
4256 Sim Starting
```

```
4257 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 112.84999999999997
4258 Ai: 1 Gen: 29
4259 Sim Starting
4260 Sim over Total pop = 0 Tick Complete = 6138
    Fitness = 519.55
4261 Ai: 2 Gen: 29
4262 Sim Starting
4263 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 224.5
4264 Ai: 3 Gen: 29
4265 Sim Starting
4266 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -190.25
4267 Ai: 4 Gen: 29
4268 Sim Starting
4269 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 396.3000000000086
4270 Ai: 5 Gen: 29
4271 Sim Starting
4272 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 252.6999999999976
4273 Ai: 6 Gen: 29
4274 Sim Starting
4275 Sim over Total pop = 0 Tick Complete = 2926
    Fitness = 167.0000000000037
4276 Ai: 7 Gen: 29
4277 Sim Starting
4278 Sim over Total pop = 0 Tick Complete = 2629
    Fitness = 739.8000000000051
4279 Ai: 8 Gen: 29
4280 Sim Starting
4281 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 540.999999999998
4282 Ai: 9 Gen: 29
4283 Sim Starting
4284 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 142.5499999999959
4285 Ai: 10 Gen: 29
4286 Sim Starting
4287 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 139.6499999999998
4288 Ai: 11 Gen: 29
4289 Sim Starting
```

```
4290 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 148.64999999999998
4291 Ai: 12 Gen: 29
4292 Sim Starting
4293 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 158.7
4294 Ai: 13 Gen: 29
4295 Sim Starting
4296 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 965.000000000042
4297 Ai: 14 Gen: 29
4298 Sim Starting
4299 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 201.5999999999997
4300 Ai: 15 Gen: 29
4301 Sim Starting
4302 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 447.1500000000117
4303 Ai: 16 Gen: 29
4304 Sim Starting
4305 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 558.650000000004
4306 Ai: 17 Gen: 29
4307 Sim Starting
4308 Sim over Total pop = 0 Tick Complete = 2684
    Fitness = 600.449999999948
4309 Ai: 18 Gen: 29
4310 Sim Starting
4311 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 384.900000000043
4312 Ai: 19 Gen: 29
4313 Sim Starting
4314 Sim over Total pop = 0 Tick Complete = 5005
    Fitness = 817.05
4315 Ai: 20 Gen: 29
4316 Sim Starting
4317 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
4318 Ai: 21 Gen: 29
4319 Sim Starting
4320 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 135.0
4321 Ai: 22 Gen: 29
4322 Sim Starting
```

```
4323 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 338.5
4324 Ai: 23 Gen: 29
4325 Sim Starting
4326 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
4327 Ai: 24 Gen: 29
4328 Sim Starting
4329 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 204.25
4330 Ai: 25 Gen: 29
4331 Sim Starting
4332 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
4333 Ai: 26 Gen: 29
4334 Sim Starting
4335 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
4336 Ai: 27 Gen: 29
4337 Sim Starting
4338 Sim over Total pop = 0 Tick Complete = 5302
    Fitness = 784.600000000004
4339 Ai: 28 Gen: 29
4340 Sim Starting
4341 Sim over Total pop = 0 Tick Complete = 2552
    Fitness = 547.4999999999999
4342 Ai: 29 Gen: 29
4343 Sim Starting
4344 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 536.7500000000034
4345 Ai: 30 Gen: 29
4346 Sim Starting
4347 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 681.4000000000025
4348 Ai: 31 Gen: 29
4349 Sim Starting
4350 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 267.5
4351 Ai: 32 Gen: 29
4352 Sim Starting
4353 Sim over Total pop = 0 Tick Complete = 2827
    Fitness = 872.5499999999945
4354 Ai: 33 Gen: 29
4355 Sim Starting
```

```
4356 Sim over Total pop = 0 Tick Complete = 2618
    Fitness = 289.2500000000018
4357 Ai: 34 Gen: 29
4358 Sim Starting
4359 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 335.3999999999975
4360 Ai: 35 Gen: 29
4361 Sim Starting
4362 Sim over Total pop = 0 Tick Complete = 5500
    Fitness = 465.5499999999924
4363 Ai: 36 Gen: 29
4364 Sim Starting
4365 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
4366 Ai: 37 Gen: 29
4367 Sim Starting
4368 Sim over Total pop = 0 Tick Complete = 3355
    Fitness = 300.0999999999997
4369 Ai: 38 Gen: 29
4370 Sim Starting
4371 Sim over Total pop = 0 Tick Complete = 4807
    Fitness = 639.1499999999938
4372 Ai: 39 Gen: 29
4373 Sim Starting
4374 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 142.2000000000002
4375 Ai: 40 Gen: 29
4376 Sim Starting
4377 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2104.599999999965
4378 Ai: 41 Gen: 29
4379 Sim Starting
4380 Sim over Total pop = 0 Tick Complete = 7851
    Fitness = 1296.1500000000167
4381 Ai: 42 Gen: 29
4382 Sim Starting
4383 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 209.3000000000007
4384 Ai: 43 Gen: 29
4385 Sim Starting
4386 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 146.5
4387 Ai: 44 Gen: 29
4388 Sim Starting
```

```
4389 Sim over Total pop = 0 Tick Complete = 10989
    Fitness = 891.2999999999931
4390 Ai: 45 Gen: 29
4391 Sim Starting
4392 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 136.2999999999995
4393 Ai: 46 Gen: 29
4394 Sim Starting
4395 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 87.8000000000004
4396 Ai: 0 Gen: 30
4397 Sim Starting
4398 Sim over Total pop = 0 Tick Complete = 2662
    Fitness = 28.54999999999855
4399 Ai: 1 Gen: 30
4400 Sim Starting
4401 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 148.5
4402 Ai: 2 Gen: 30
4403 Sim Starting
4404 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 355.0499999999995
4405 Ai: 3 Gen: 30
4406 Sim Starting
4407 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 393.5500000000005
4408 Ai: 4 Gen: 30
4409 Sim Starting
4410 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 424.5499999999995
4411 Ai: 5 Gen: 30
4412 Sim Starting
4413 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 220.8500000000005
4414 Ai: 6 Gen: 30
4415 Sim Starting
4416 Sim over Total pop = 0 Tick Complete = 6050
    Fitness = 566.000000000041
4417 Ai: 7 Gen: 30
4418 Sim Starting
4419 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
4420 Ai: 8 Gen: 30
4421 Sim Starting
```

```
4422 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 2.1999999999999744
4423 Ai: 9 Gen: 30
4424 Sim Starting
4425 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 361.7500000000008
4426 Ai: 10 Gen: 30
4427 Sim Starting
4428 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
4429 Ai: 11 Gen: 30
4430 Sim Starting
4431 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 426.0999999999985
4432 Ai: 12 Gen: 30
4433 Sim Starting
4434 Sim over Total pop = 0 Tick Complete = 2189
    Fitness = 230.0500000000015
4435 Ai: 13 Gen: 30
4436 Sim Starting
4437 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 266.0
4438 Ai: 14 Gen: 30
4439 Sim Starting
4440 Sim over Total pop = 0 Tick Complete = 15895
    Fitness = 1061.5499999999988
4441 Ai: 15 Gen: 30
4442 Sim Starting
4443 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 271.999999999997
4444 Ai: 16 Gen: 30
4445 Sim Starting
4446 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 421.1000000000006
4447 Ai: 17 Gen: 30
4448 Sim Starting
4449 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 149.5
4450 Ai: 18 Gen: 30
4451 Sim Starting
4452 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 406.4000000000003
4453 Ai: 19 Gen: 30
4454 Sim Starting
```

```
4455 Sim over Total pop = 11 Tick Complete = 20001
    Fitness = 1057.5
4456 Ai: 20 Gen: 30
4457 Sim Starting
4458 Sim over Total pop = 0 Tick Complete = 3220
    Fitness = 843.899999999997
4459 Ai: 21 Gen: 30
4460 Sim Starting
4461 Sim over Total pop = 0 Tick Complete = 3168
    Fitness = 575.7500000000002
4462 Ai: 22 Gen: 30
4463 Sim Starting
4464 Sim over Total pop = 0 Tick Complete = 8756
    Fitness = 330.550000000000007
4465 Ai: 23 Gen: 30
4466 Sim Starting
4467 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 257.4000000000002
4468 Ai: 24 Gen: 30
4469 Sim Starting
4470 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 395.5999999999989
4471 Ai: 25 Gen: 30
4472 Sim Starting
4473 Sim over Total pop = 0 Tick Complete = 3608
    Fitness = 692.9999999999987
4474 Ai: 26 Gen: 30
4475 Sim Starting
4476 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 632.2000000000006
4477 Ai: 27 Gen: 30
4478 Sim Starting
4479 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 197.0
4480 Ai: 28 Gen: 30
4481 Sim Starting
4482 Sim over Total pop = 0 Tick Complete = 7997
    Fitness = 748.8500000000131
4483 Ai: 29 Gen: 30
4484 Sim Starting
4485 Sim over Total pop = 0 Tick Complete = 4158
    Fitness = 268.5
4486 Ai: 30 Gen: 30
4487 Sim Starting
```

```
4488 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 136.19999999999996
4489 Ai: 31 Gen: 30
4490 Sim Starting
4491 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 124.20000000000005
4492 Ai: 32 Gen: 30
4493 Sim Starting
4494 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = 679.799999999997
4495 Ai: 33 Gen: 30
4496 Sim Starting
4497 Sim over Total pop = 0 Tick Complete = 3267
    Fitness = 996.9499999999964
4498 Ai: 34 Gen: 30
4499 Sim Starting
4500 Sim over Total pop = 0 Tick Complete = 8283
    Fitness = 1072.1999999999985
4501 Ai: 35 Gen: 30
4502 Sim Starting
4503 Sim over Total pop = 0 Tick Complete = 4290
    Fitness = 427.4500000000002
4504 Ai: 36 Gen: 30
4505 Sim Starting
4506 Sim over Total pop = 0 Tick Complete = 5071
    Fitness = 561.9000000000008
4507 Ai: 37 Gen: 30
4508 Sim Starting
4509 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 155.6999999999993
4510 Ai: 38 Gen: 30
4511 Sim Starting
4512 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 431.9500000000011
4513 Ai: 39 Gen: 30
4514 Sim Starting
4515 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 600.3000000000009
4516 Ai: 40 Gen: 30
4517 Sim Starting
4518 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 165.75
4519 Ai: 41 Gen: 30
4520 Sim Starting
```

```
4521 Sim over Total pop = 0 Tick Complete = 5093
    Fitness = 1055.9499999999944
4522 Ai: 42 Gen: 30
4523 Sim Starting
4524 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 132.45
4525 Ai: 43 Gen: 30
4526 Sim Starting
4527 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.299999999997
4528 Ai: 44 Gen: 30
4529 Sim Starting
4530 Sim over Total pop = 0 Tick Complete = 3143
    Fitness = 388.000000000043
4531 Ai: 45 Gen: 30
4532 Sim Starting
4533 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 124.5
4534 Ai: 46 Gen: 30
4535 Sim Starting
4536 Sim over Total pop = 0 Tick Complete = 7623
    Fitness = 847.300000000119
4537 Ai: 47 Gen: 30
4538 Sim Starting
4539 Sim over Total pop = 0 Tick Complete = 3091
    Fitness = 338.150000000002
4540 Ai: 0 Gen: 31
4541 Sim Starting
4542 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 174.0
4543 Ai: 1 Gen: 31
4544 Sim Starting
4545 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 477.050000000002
4546 Ai: 2 Gen: 31
4547 Sim Starting
4548 Sim over Total pop = 0 Tick Complete = 2761
    Fitness = 382.6499999999833
4549 Ai: 3 Gen: 31
4550 Sim Starting
4551 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 306.950000000003
4552 Ai: 4 Gen: 31
4553 Sim Starting
```

```
4554 Sim over Total pop = 0 Tick Complete = 7172
    Fitness = 674.8500000000143
4555 Ai: 5 Gen: 31
4556 Sim Starting
4557 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 415.9999999999998
4558 Ai: 6 Gen: 31
4559 Sim Starting
4560 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 293.3999999999999
4561 Ai: 7 Gen: 31
4562 Sim Starting
4563 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 158.3999999999998
4564 Ai: 8 Gen: 31
4565 Sim Starting
4566 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 111.8999999999998
4567 Ai: 9 Gen: 31
4568 Sim Starting
4569 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 248.75
4570 Ai: 10 Gen: 31
4571 Sim Starting
4572 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 289.4999999999994
4573 Ai: 11 Gen: 31
4574 Sim Starting
4575 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 551.55
4576 Ai: 12 Gen: 31
4577 Sim Starting
4578 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 482.0500000000234
4579 Ai: 13 Gen: 31
4580 Sim Starting
4581 Sim over Total pop = 0 Tick Complete = 4048
    Fitness = 494.4500000000107
4582 Ai: 14 Gen: 31
4583 Sim Starting
4584 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 323.9999999999994
4585 Ai: 15 Gen: 31
4586 Sim Starting
```

```
4587 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 318.4000000000015
4588 Ai: 16 Gen: 31
4589 Sim Starting
4590 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = -11.799999999999969
4591 Ai: 17 Gen: 31
4592 Sim Starting
4593 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = -19.799999999999997
4594 Ai: 18 Gen: 31
4595 Sim Starting
4596 Sim over Total pop = 0 Tick Complete = 2112
    Fitness = 391.79999999999757
4597 Ai: 19 Gen: 31
4598 Sim Starting
4599 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = -113.5
4600 Ai: 20 Gen: 31
4601 Sim Starting
4602 Sim over Total pop = 0 Tick Complete = 2937
    Fitness = 73.6000000000002
4603 Ai: 21 Gen: 31
4604 Sim Starting
4605 Sim over Total pop = 0 Tick Complete = 2310
    Fitness = 201.2500000000009
4606 Ai: 22 Gen: 31
4607 Sim Starting
4608 Sim over Total pop = 0 Tick Complete = 4037
    Fitness = 564.8500000000006
4609 Ai: 23 Gen: 31
4610 Sim Starting
4611 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 160.0
4612 Ai: 24 Gen: 31
4613 Sim Starting
4614 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 180.3999999999998
4615 Ai: 25 Gen: 31
4616 Sim Starting
4617 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = -22.299999999999997
4618 Ai: 26 Gen: 31
4619 Sim Starting
```

```
4620 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 436.29999999999933
4621 Ai: 27 Gen: 31
4622 Sim Starting
4623 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 408.6999999999981
4624 Ai: 28 Gen: 31
4625 Sim Starting
4626 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 241.6499999999975
4627 Ai: 29 Gen: 31
4628 Sim Starting
4629 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 340.70000000000033
4630 Ai: 30 Gen: 31
4631 Sim Starting
4632 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 404.40000000000583
4633 Ai: 31 Gen: 31
4634 Sim Starting
4635 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 132.35
4636 Ai: 32 Gen: 31
4637 Sim Starting
4638 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 183.3999999999998
4639 Ai: 33 Gen: 31
4640 Sim Starting
4641 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 758.0000000000044
4642 Ai: 34 Gen: 31
4643 Sim Starting
4644 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
4645 Ai: 35 Gen: 31
4646 Sim Starting
4647 Sim over Total pop = 0 Tick Complete = 4147
    Fitness = 265.6
4648 Ai: 36 Gen: 31
4649 Sim Starting
4650 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 156.0
4651 Ai: 37 Gen: 31
4652 Sim Starting
```

```
4653 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 134.60000000000002
4654 Ai: 38 Gen: 31
4655 Sim Starting
4656 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 272.6999999999885
4657 Ai: 39 Gen: 31
4658 Sim Starting
4659 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -166.5
4660 Ai: 40 Gen: 31
4661 Sim Starting
4662 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 383.25000000000176
4663 Ai: 41 Gen: 31
4664 Sim Starting
4665 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 133.50000000000006
4666 Ai: 42 Gen: 31
4667 Sim Starting
4668 Sim over Total pop = 0 Tick Complete = 9064
    Fitness = 918.600000000231
4669 Ai: 43 Gen: 31
4670 Sim Starting
4671 Sim over Total pop = 0 Tick Complete = 2420
    Fitness = 506.499999999968
4672 Ai: 44 Gen: 31
4673 Sim Starting
4674 Sim over Total pop = 0 Tick Complete = 5357
    Fitness = 392.20000000000135
4675 Ai: 45 Gen: 31
4676 Sim Starting
4677 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1996.299999998647
4678 Ai: 46 Gen: 31
4679 Sim Starting
4680 Sim over Total pop = 0 Tick Complete = 2637
    Fitness = 301.850000000001
4681 Ai: 47 Gen: 31
4682 Sim Starting
4683 Sim over Total pop = 0 Tick Complete = 8459
    Fitness = 493.0
4684 Ai: 0 Gen: 32
4685 Sim Starting
```

```
4686 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 276.250000000000085
4687 Ai: 1 Gen: 32
4688 Sim Starting
4689 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 190.85000000000002
4690 Ai: 2 Gen: 32
4691 Sim Starting
4692 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 339.0
4693 Ai: 3 Gen: 32
4694 Sim Starting
4695 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 498.299999999994
4696 Ai: 4 Gen: 32
4697 Sim Starting
4698 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 377.5
4699 Ai: 5 Gen: 32
4700 Sim Starting
4701 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 190.100000000001
4702 Ai: 6 Gen: 32
4703 Sim Starting
4704 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 326.5
4705 Ai: 7 Gen: 32
4706 Sim Starting
4707 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 313.5
4708 Ai: 8 Gen: 32
4709 Sim Starting
4710 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 159.3000000000015
4711 Ai: 9 Gen: 32
4712 Sim Starting
4713 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 284.0
4714 Ai: 10 Gen: 32
4715 Sim Starting
4716 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 410.5
4717 Ai: 11 Gen: 32
4718 Sim Starting
```

```
4719 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 151.5
4720 Ai: 12 Gen: 32
4721 Sim Starting
4722 Sim over Total pop = 0 Tick Complete = 5137
    Fitness = 568.4500000000086
4723 Ai: 13 Gen: 32
4724 Sim Starting
4725 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 189.75
4726 Ai: 14 Gen: 32
4727 Sim Starting
4728 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 427.4500000000016
4729 Ai: 15 Gen: 32
4730 Sim Starting
4731 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 360.900000000004
4732 Ai: 16 Gen: 32
4733 Sim Starting
4734 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 799.100000000006
4735 Ai: 17 Gen: 32
4736 Sim Starting
4737 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 293.5
4738 Ai: 18 Gen: 32
4739 Sim Starting
4740 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 228.5
4741 Ai: 19 Gen: 32
4742 Sim Starting
4743 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 190.8499999999943
4744 Ai: 20 Gen: 32
4745 Sim Starting
4746 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 299.5
4747 Ai: 21 Gen: 32
4748 Sim Starting
4749 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 167.0
4750 Ai: 22 Gen: 32
4751 Sim Starting
```

```
4752
4753 Name: 4
4754 X: 277
4755 Y: 426
4756 civpop: 60
4757 trooppop: 48
4758 rawresources: 280.0
4759 equipment: 0
4760 rate: 2.0
4761 popraw: 0.5
4762 popequip: 0
4763 %TroopsSupplied: 0
4764 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 346.5
4765 Ai: 23 Gen: 32
4766 Sim Starting
4767 Sim over Total pop = 0 Tick Complete = 847
    Fitness = -119.9
4768 Ai: 24 Gen: 32
4769 Sim Starting
4770 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 25.75000000000003
4771 Ai: 25 Gen: 32
4772 Sim Starting
4773 Sim over Total pop = 0 Tick Complete = 6468
    Fitness = 947.049999999796
4774 Ai: 26 Gen: 32
4775 Sim Starting
4776 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 141.0999999999985
4777 Ai: 27 Gen: 32
4778 Sim Starting
4779 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 399.150000000001
4780 Ai: 28 Gen: 32
4781 Sim Starting
4782 Sim over Total pop = 0 Tick Complete = 3388
    Fitness = 739.650000000007
4783 Ai: 29 Gen: 32
4784 Sim Starting
4785 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 160.799999999999
4786 Ai: 30 Gen: 32
4787 Sim Starting
```

```
4788 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 219.64999999999998
4789 Ai: 31 Gen: 32
4790 Sim Starting
4791 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 410.2500000000006
4792 Ai: 32 Gen: 32
4793 Sim Starting
4794 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 231.5499999999794
4795 Ai: 33 Gen: 32
4796 Sim Starting
4797 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 161.5
4798 Ai: 34 Gen: 32
4799 Sim Starting
4800 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 392.099999999997
4801 Ai: 35 Gen: 32
4802 Sim Starting
4803 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 187.0
4804 Ai: 36 Gen: 32
4805 Sim Starting
4806 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 327.2500000000004
4807 Ai: 37 Gen: 32
4808 Sim Starting
4809 Sim over Total pop = 0 Tick Complete = 2310
    Fitness = 629.599999999955
4810 Ai: 38 Gen: 32
4811 Sim Starting
4812 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
4813 Ai: 39 Gen: 32
4814 Sim Starting
4815 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
4816 Ai: 40 Gen: 32
4817 Sim Starting
4818 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 737.8000000000011
4819 Ai: 41 Gen: 32
4820 Sim Starting
```

```
4821 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 591.3000000000047
4822 Ai: 42 Gen: 32
4823 Sim Starting
4824 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2935.249999999784
4825 Ai: 43 Gen: 32
4826 Sim Starting
4827 Sim over Total pop = 0 Tick Complete = 4760
    Fitness = 540.549999999954
4828 Ai: 44 Gen: 32
4829 Sim Starting
4830 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 265.7000000000012
4831 Ai: 45 Gen: 32
4832 Sim Starting
4833 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2665.1999999997765
4834 Ai: 46 Gen: 32
4835 Sim Starting
4836 Sim over Total pop = 0 Tick Complete = 8302
    Fitness = 513.200000000004
4837 Ai: 47 Gen: 32
4838 Sim Starting
4839 Sim over Total pop = 0 Tick Complete = 8305
    Fitness = 481.5
4840 Ai: 48 Gen: 32
4841 Sim Starting
4842 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 149.7499999999994
4843 Ai: 49 Gen: 32
4844 Sim Starting
4845 Sim over Total pop = 0 Tick Complete = 6490
    Fitness = 1027.8500000000076
4846 Ai: 0 Gen: 33
4847 Sim Starting
4848 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 370.099999999998
4849 Ai: 1 Gen: 33
4850 Sim Starting
4851 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 449.0500000000015
4852 Ai: 2 Gen: 33
4853 Sim Starting
```

```
4854 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 290.79999999999984
4855 Ai: 3 Gen: 33
4856 Sim Starting
4857 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 525.65000000000007
4858 Ai: 4 Gen: 33
4859 Sim Starting
4860 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 461.15000000000001
4861 Ai: 5 Gen: 33
4862 Sim Starting
4863 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
4864 Ai: 6 Gen: 33
4865 Sim Starting
4866 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 451.7999999999995
4867 Ai: 7 Gen: 33
4868 Sim Starting
4869 Sim over Total pop = 0 Tick Complete = 4950
    Fitness = 387.3999999999998
4870 Ai: 8 Gen: 33
4871 Sim Starting
4872 Sim over Total pop = 0 Tick Complete = 7128
    Fitness = 260.4999999999982
4873 Ai: 9 Gen: 33
4874 Sim Starting
4875 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 422.5
4876 Ai: 10 Gen: 33
4877 Sim Starting
4878 Sim over Total pop = 0 Tick Complete = 6424
    Fitness = 613.6500000000085
4879 Ai: 11 Gen: 33
4880 Sim Starting
4881 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
4882 Ai: 12 Gen: 33
4883 Sim Starting
4884 Sim over Total pop = 0 Tick Complete = 17072
    Fitness = 920.50000000000242
4885 Ai: 13 Gen: 33
4886 Sim Starting
```

```
4887 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 82.0
4888 Ai: 14 Gen: 33
4889 Sim Starting
4890 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 350.3000000000075
4891 Ai: 15 Gen: 33
4892 Sim Starting
4893 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 357.250000000004
4894 Ai: 16 Gen: 33
4895 Sim Starting
4896 Sim over Total pop = 0 Tick Complete = 1408
    Fitness = 287.0500000000035
4897 Ai: 17 Gen: 33
4898 Sim Starting
4899 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 204.3000000000007
4900 Ai: 18 Gen: 33
4901 Sim Starting
4902 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 101.25
4903 Ai: 19 Gen: 33
4904 Sim Starting
4905 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 382.25
4906 Ai: 20 Gen: 33
4907 Sim Starting
4908 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 266.0499999999997
4909 Ai: 21 Gen: 33
4910 Sim Starting
4911 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 485.100000000021
4912 Ai: 22 Gen: 33
4913 Sim Starting
4914 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = 298.5
4915 Ai: 23 Gen: 33
4916 Sim Starting
4917 Sim over Total pop = 0 Tick Complete = 6820
    Fitness = 486.3500000000054
4918 Ai: 24 Gen: 33
4919 Sim Starting
```

```
4920 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 315.65
4921 Ai: 25 Gen: 33
4922 Sim Starting
4923 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 128.9999999999994
4924 Ai: 26 Gen: 33
4925 Sim Starting
4926 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 353.6499999999975
4927 Ai: 27 Gen: 33
4928 Sim Starting
4929 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 482.5
4930 Ai: 28 Gen: 33
4931 Sim Starting
4932 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 831.299999999992
4933 Ai: 29 Gen: 33
4934 Sim Starting
4935 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 449.250000000005
4936 Ai: 30 Gen: 33
4937 Sim Starting
4938 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 478.8000000000064
4939 Ai: 31 Gen: 33
4940 Sim Starting
4941 Sim over Total pop = 0 Tick Complete = 1837
    Fitness = 203.0500000000013
4942 Ai: 32 Gen: 33
4943 Sim Starting
4944 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 380.550000000002
4945 Ai: 33 Gen: 33
4946 Sim Starting
4947 Sim over Total pop = 0 Tick Complete = 2761
    Fitness = 103.4999999999974
4948 Ai: 34 Gen: 33
4949 Sim Starting
4950 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 572.800000000001
4951 Ai: 35 Gen: 33
4952 Sim Starting
```

```
4953 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 217.14999999999998
4954 Ai: 36 Gen: 33
4955 Sim Starting
4956 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 388.9000000000026
4957 Ai: 37 Gen: 33
4958 Sim Starting
4959 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 413.8499999999987
4960 Ai: 38 Gen: 33
4961 Sim Starting
4962 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 371.6499999999986
4963 Ai: 39 Gen: 33
4964 Sim Starting
4965 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 191.6999999999945
4966 Ai: 40 Gen: 33
4967 Sim Starting
4968 Sim over Total pop = 0 Tick Complete = 4554
    Fitness = 853.3000000000063
4969 Ai: 41 Gen: 33
4970 Sim Starting
4971 Sim over Total pop = 0 Tick Complete = 11011
    Fitness = 1198.1000000000095
4972 Ai: 42 Gen: 33
4973 Sim Starting
4974 Sim over Total pop = 0 Tick Complete = 12100
    Fitness = 758.7000000000189
4975 Ai: 43 Gen: 33
4976 Sim Starting
4977 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 127.9499999999999
4978 Ai: 44 Gen: 33
4979 Sim Starting
4980 Sim over Total pop = 0 Tick Complete = 9548
    Fitness = 1311.3000000000104
4981 Ai: 45 Gen: 33
4982 Sim Starting
4983 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 286.1499999999986
4984 Ai: 46 Gen: 33
4985 Sim Starting
```

```
4986 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1346.8999999999803
4987 Ai: 47 Gen: 33
4988 Sim Starting
4989 Sim over Total pop = 0 Tick Complete = 4705
    Fitness = 758.199999999935
4990 Ai: 48 Gen: 33
4991 Sim Starting
4992 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 195.95
4993 Ai: 49 Gen: 33
4994 Sim Starting
4995 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 155.0999999999994
4996 Ai: 0 Gen: 34
4997 Sim Starting
4998 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 184.5499999999998
4999 Ai: 1 Gen: 34
5000 Sim Starting
5001 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 234.6999999999997
5002 Ai: 2 Gen: 34
5003 Sim Starting
5004 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 192.35000000000002
5005 Ai: 3 Gen: 34
5006 Sim Starting
5007 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 400.45000000000095
5008 Ai: 4 Gen: 34
5009 Sim Starting
5010 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 570.9499999999994
5011 Ai: 5 Gen: 34
5012 Sim Starting
5013 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 381.5
5014 Ai: 6 Gen: 34
5015 Sim Starting
5016 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 391.85
5017 Ai: 7 Gen: 34
5018 Sim Starting
```

```
5019 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 212.5
5020 Ai: 8 Gen: 34
5021 Sim Starting
5022 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 137.6000000000025
5023 Ai: 9 Gen: 34
5024 Sim Starting
5025 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 229.6499999999984
5026 Ai: 10 Gen: 34
5027 Sim Starting
5028 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
5029 Ai: 11 Gen: 34
5030 Sim Starting
5031 Sim over Total pop = 0 Tick Complete = 3135
    Fitness = 313.6
5032 Ai: 12 Gen: 34
5033 Sim Starting
5034 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 556.700000000019
5035 Ai: 13 Gen: 34
5036 Sim Starting
5037 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 366.800000000047
5038 Ai: 14 Gen: 34
5039 Sim Starting
5040 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 630.999999999974
5041 Ai: 15 Gen: 34
5042 Sim Starting
5043 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5044 Ai: 16 Gen: 34
5045 Sim Starting
5046 Sim over Total pop = 0 Tick Complete = 2574
    Fitness = 416.249999999984
5047 Ai: 17 Gen: 34
5048 Sim Starting
5049 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 284.749999999999
5050 Ai: 18 Gen: 34
5051 Sim Starting
```

```
5052 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 354.05000000000001
5053 Ai: 19 Gen: 34
5054 Sim Starting
5055 Sim over Total pop = 0 Tick Complete = 6875
    Fitness = 635.6000000000115
5056 Ai: 20 Gen: 34
5057 Sim Starting
5058 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 518.4000000000002
5059 Ai: 21 Gen: 34
5060 Sim Starting
5061 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 520.0
5062 Ai: 22 Gen: 34
5063 Sim Starting
5064 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 577.0999999999992
5065 Ai: 23 Gen: 34
5066 Sim Starting
5067 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 289.0
5068 Ai: 24 Gen: 34
5069 Sim Starting
5070 Sim over Total pop = 0 Tick Complete = 5907
    Fitness = 888.5999999999951
5071 Ai: 25 Gen: 34
5072 Sim Starting
5073 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 249.5
5074 Ai: 26 Gen: 34
5075 Sim Starting
5076 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 293.5
5077 Ai: 27 Gen: 34
5078 Sim Starting
5079 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 211.0000000000028
5080 Ai: 28 Gen: 34
5081 Sim Starting
5082 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 385.9999999999955
5083 Ai: 29 Gen: 34
5084 Sim Starting
```

```
5085 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 256.35
5086 Ai: 30 Gen: 34
5087 Sim Starting
5088 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 260.5
5089 Ai: 31 Gen: 34
5090 Sim Starting
5091 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 35.0
5092 Ai: 32 Gen: 34
5093 Sim Starting
5094 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -136.45
5095 Ai: 33 Gen: 34
5096 Sim Starting
5097 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 336.5
5098 Ai: 34 Gen: 34
5099 Sim Starting
5100 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 445.65000000000106
5101 Ai: 35 Gen: 34
5102 Sim Starting
5103 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 261.4000000000015
5104 Ai: 36 Gen: 34
5105 Sim Starting
5106 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1196.6499999999999
5107 Ai: 37 Gen: 34
5108 Sim Starting
5109 Sim over Total pop = 0 Tick Complete = 8225
    Fitness = 325.7000000000018
5110 Ai: 38 Gen: 34
5111 Sim Starting
5112 Sim over Total pop = 0 Tick Complete = 10549
    Fitness = 961.7000000000311
5113 Ai: 39 Gen: 34
5114 Sim Starting
5115 Sim over Total pop = 0 Tick Complete = 3454
    Fitness = 300.1499999999986
5116 Ai: 40 Gen: 34
5117 Sim Starting
```

```
5118 Sim over Total pop = 0 Tick Complete = 6149
    Fitness = 599.000000000006
5119 Ai: 41 Gen: 34
5120 Sim Starting
5121 Sim over Total pop = 0 Tick Complete = 3069
    Fitness = 542.699999999994
5122 Ai: 42 Gen: 34
5123 Sim Starting
5124 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 370.249999999997
5125 Ai: 43 Gen: 34
5126 Sim Starting
5127 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 131.0999999999985
5128 Ai: 44 Gen: 34
5129 Sim Starting
5130 Sim over Total pop = 0 Tick Complete = 13640
    Fitness = 1938.8999999999583
5131 Ai: 45 Gen: 34
5132 Sim Starting
5133 Sim over Total pop = 0 Tick Complete = 6985
    Fitness = 597.499999999869
5134 Ai: 46 Gen: 34
5135 Sim Starting
5136 Sim over Total pop = 0 Tick Complete = 11869
    Fitness = 697.950000000001
5137 Ai: 47 Gen: 34
5138 Sim Starting
5139 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -166.45
5140 Ai: 48 Gen: 34
5141 Sim Starting
5142 Sim over Total pop = 0 Tick Complete = 12298
    Fitness = 1465.399999999983
5143 Ai: 49 Gen: 34
5144 Sim Starting
5145 Sim over Total pop = 0 Tick Complete = 12122
    Fitness = 1001.1000000000082
5146 Ai: 0 Gen: 35
5147 Sim Starting
5148 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 231.30000000000052
5149 Ai: 1 Gen: 35
5150 Sim Starting
```

```
5151 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 299.9999999999998
5152 Ai: 2 Gen: 35
5153 Sim Starting
5154 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 271.5000000000006
5155 Ai: 3 Gen: 35
5156 Sim Starting
5157 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 259.0
5158 Ai: 4 Gen: 35
5159 Sim Starting
5160 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 386.6499999999907
5161 Ai: 5 Gen: 35
5162 Sim Starting
5163 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 322.5
5164 Ai: 6 Gen: 35
5165 Sim Starting
5166 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
5167 Ai: 7 Gen: 35
5168 Sim Starting
5169 Sim over Total pop = 0 Tick Complete = 3421
    Fitness = 412.3000000000011
5170 Ai: 8 Gen: 35
5171 Sim Starting
5172 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 312.5999999999974
5173 Ai: 9 Gen: 35
5174 Sim Starting
5175 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 372.0
5176 Ai: 10 Gen: 35
5177 Sim Starting
5178 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
5179 Ai: 11 Gen: 35
5180 Sim Starting
5181 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5182 Ai: 12 Gen: 35
5183 Sim Starting
```

```
5184 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
5185 Ai: 13 Gen: 35
5186 Sim Starting
5187 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
5188 Ai: 14 Gen: 35
5189 Sim Starting
5190 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 363.649999999995
5191 Ai: 15 Gen: 35
5192 Sim Starting
5193 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 541.35
5194 Ai: 16 Gen: 35
5195 Sim Starting
5196 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 408.549999999997
5197 Ai: 17 Gen: 35
5198 Sim Starting
5199 Sim over Total pop = 0 Tick Complete = 3839
    Fitness = 619.900000000002
5200 Ai: 18 Gen: 35
5201 Sim Starting
5202 Sim over Total pop = 0 Tick Complete = 2893
    Fitness = 391.999999999997
5203 Ai: 19 Gen: 35
5204 Sim Starting
5205 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 420.6499999999816
5206 Ai: 20 Gen: 35
5207 Sim Starting
5208 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 413.5500000000024
5209 Ai: 21 Gen: 35
5210 Sim Starting
5211 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 274.0
5212 Ai: 22 Gen: 35
5213 Sim Starting
5214 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 575.0
5215 Ai: 23 Gen: 35
5216 Sim Starting
```

```
5217 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 78.14999999999992
5218 Ai: 24 Gen: 35
5219 Sim Starting
5220 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 133.70000000000005
5221 Ai: 25 Gen: 35
5222 Sim Starting
5223 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5224 Ai: 26 Gen: 35
5225 Sim Starting
5226 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 459.6999999999925
5227 Ai: 27 Gen: 35
5228 Sim Starting
5229 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 239.5
5230 Ai: 28 Gen: 35
5231 Sim Starting
5232 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 247.6499999999998
5233 Ai: 29 Gen: 35
5234 Sim Starting
5235 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 287.70000000000005
5236 Ai: 30 Gen: 35
5237 Sim Starting
5238 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 209.7500000000004
5239 Ai: 31 Gen: 35
5240 Sim Starting
5241 Sim over Total pop = 0 Tick Complete = 3663
    Fitness = 895.749999999895
5242 Ai: 32 Gen: 35
5243 Sim Starting
5244 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 413.35
5245 Ai: 33 Gen: 35
5246 Sim Starting
5247 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 585.899999999988
5248 Ai: 34 Gen: 35
5249 Sim Starting
```

```
5250 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 371.8499999999977
5251 Ai: 35 Gen: 35
5252 Sim Starting
5253 Sim over Total pop = 0 Tick Complete = 2838
    Fitness = 541.200000000046
5254 Ai: 36 Gen: 35
5255 Sim Starting
5256 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 144.5
5257 Ai: 37 Gen: 35
5258 Sim Starting
5259 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 638.749999999986
5260 Ai: 38 Gen: 35
5261 Sim Starting
5262 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 191.0999999999965
5263 Ai: 39 Gen: 35
5264 Sim Starting
5265 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 129.3
5266 Ai: 40 Gen: 35
5267 Sim Starting
5268 Sim over Total pop = 0 Tick Complete = 2915
    Fitness = 240.5
5269 Ai: 41 Gen: 35
5270 Sim Starting
5271 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 136.0
5272 Ai: 42 Gen: 35
5273 Sim Starting
5274 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 132.4999999999997
5275 Ai: 43 Gen: 35
5276 Sim Starting
5277 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
5278 Ai: 44 Gen: 35
5279 Sim Starting
5280 Sim over Total pop = 0 Tick Complete = 4312
    Fitness = 348.1999999999993
5281 Ai: 45 Gen: 35
5282 Sim Starting
```

```
5283 Sim over Total pop = 0 Tick Complete = 12254
    Fitness = 1806.3999999999746
5284 Ai: 46 Gen: 35
5285 Sim Starting
5286 Sim over Total pop = 0 Tick Complete = 3388
    Fitness = 146.0499999999944
5287 Ai: 47 Gen: 35
5288 Sim Starting
5289 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 138.65
5290 Ai: 48 Gen: 35
5291 Sim Starting
5292 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 148.15000000000003
5293 Ai: 49 Gen: 35
5294 Sim Starting
5295 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 142.79999999999998
5296 Ai: 0 Gen: 36
5297 Sim Starting
5298 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 282.2999999999995
5299 Ai: 1 Gen: 36
5300 Sim Starting
5301 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 192.5
5302 Ai: 2 Gen: 36
5303 Sim Starting
5304 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 361.2999999999995
5305 Ai: 3 Gen: 36
5306 Sim Starting
5307 Sim over Total pop = 0 Tick Complete = 6754
    Fitness = 707.099999999879
5308 Ai: 4 Gen: 36
5309 Sim Starting
5310 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 241.0
5311 Ai: 5 Gen: 36
5312 Sim Starting
5313 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
5314 Ai: 6 Gen: 36
5315 Sim Starting
```

```
5316 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5317 Ai: 7 Gen: 36
5318 Sim Starting
5319 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
5320 Ai: 8 Gen: 36
5321 Sim Starting
5322 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
5323 Ai: 9 Gen: 36
5324 Sim Starting
5325 Sim over Total pop = 0 Tick Complete = 4620
    Fitness = 623.75
5326 Ai: 10 Gen: 36
5327 Sim Starting
5328 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 193.0
5329 Ai: 11 Gen: 36
5330 Sim Starting
5331 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
5332 Ai: 12 Gen: 36
5333 Sim Starting
5334 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 379.35
5335 Ai: 13 Gen: 36
5336 Sim Starting
5337 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 335.0
5338 Ai: 14 Gen: 36
5339 Sim Starting
5340 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 496.3000000000143
5341 Ai: 15 Gen: 36
5342 Sim Starting
5343 Sim over Total pop = 0 Tick Complete = 5423
    Fitness = 1114.649999999991
5344 Ai: 16 Gen: 36
5345 Sim Starting
5346 Sim over Total pop = 0 Tick Complete = 2211
    Fitness = 550.7000000000021
5347 Ai: 17 Gen: 36
5348 Sim Starting
```

```
5349 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
5350 Ai: 18 Gen: 36
5351 Sim Starting
5352 Sim over Total pop = 0 Tick Complete = 3212
    Fitness = 535.349999999999
5353 Ai: 19 Gen: 36
5354 Sim Starting
5355 Sim over Total pop = 0 Tick Complete = 1815
    Fitness = 205.5
5356 Ai: 20 Gen: 36
5357 Sim Starting
5358 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 390.750000000001
5359 Ai: 21 Gen: 36
5360 Sim Starting
5361 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 356.150000000006
5362 Ai: 22 Gen: 36
5363 Sim Starting
5364 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 352.599999999998
5365 Ai: 23 Gen: 36
5366 Sim Starting
5367 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 433.75
5368 Ai: 24 Gen: 36
5369 Sim Starting
5370 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 255.55
5371 Ai: 25 Gen: 36
5372 Sim Starting
5373 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 78.0
5374 Ai: 26 Gen: 36
5375 Sim Starting
5376 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 479.049999999996
5377 Ai: 27 Gen: 36
5378 Sim Starting
5379 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 132.400000000001
5380 Ai: 28 Gen: 36
5381 Sim Starting
```

```
5382 Sim over Total pop = 0 Tick Complete = 4433
    Fitness = 1040.9000000000049
5383 Ai: 29 Gen: 36
5384 Sim Starting
5385 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -122.15
5386 Ai: 30 Gen: 36
5387 Sim Starting
5388 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 468.0499999999916
5389 Ai: 31 Gen: 36
5390 Sim Starting
5391 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
5392 Ai: 32 Gen: 36
5393 Sim Starting
5394 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 216.8999999999998
5395 Ai: 33 Gen: 36
5396 Sim Starting
5397 Sim over Total pop = 0 Tick Complete = 5819
    Fitness = 368.5
5398 Ai: 34 Gen: 36
5399 Sim Starting
5400 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 307.25
5401 Ai: 35 Gen: 36
5402 Sim Starting
5403 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 658.400000000003
5404 Ai: 36 Gen: 36
5405 Sim Starting
5406 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 97.0500000000007
5407 Ai: 37 Gen: 36
5408 Sim Starting
5409 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 171.1500000000003
5410 Ai: 38 Gen: 36
5411 Sim Starting
5412 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 564.049999999981
5413 Ai: 39 Gen: 36
5414 Sim Starting
```

```
5415 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5416 Ai: 40 Gen: 36
5417 Sim Starting
5418 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
5419 Ai: 41 Gen: 36
5420 Sim Starting
5421 Sim over Total pop = 0 Tick Complete = 10890
    Fitness = 566.5500000000002
5422 Ai: 42 Gen: 36
5423 Sim Starting
5424 Sim over Total pop = 0 Tick Complete = 3113
    Fitness = 1008.2500000000002
5425 Ai: 43 Gen: 36
5426 Sim Starting
5427 Sim over Total pop = 0 Tick Complete = 9592
    Fitness = 1052.9999999999977
5428 Ai: 44 Gen: 36
5429 Sim Starting
5430 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 288.3000000000009
5431 Ai: 45 Gen: 36
5432 Sim Starting
5433 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2096.0500000001266
5434 Ai: 46 Gen: 36
5435 Sim Starting
5436 Sim over Total pop = 0 Tick Complete = 756
    Fitness = 31.599999999999937
5437 Ai: 47 Gen: 36
5438 Sim Starting
5439 Sim over Total pop = 0 Tick Complete = 14795
    Fitness = 578.7500000000102
5440 Ai: 48 Gen: 36
5441 Sim Starting
5442 Sim over Total pop = 0 Tick Complete = 15334
    Fitness = 805.05
5443 Ai: 49 Gen: 36
5444 Sim Starting
5445 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5446 Ai: 50 Gen: 36
5447 Sim Starting
```

```
5448 Sim over Total pop = 0 Tick Complete = 7678
    Fitness = 1291.3499999999977
5449 Ai: 0 Gen: 37
5450 Sim Starting
5451 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
5452 Ai: 1 Gen: 37
5453 Sim Starting
5454 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 377.5
5455 Ai: 2 Gen: 37
5456 Sim Starting
5457 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 361.0
5458 Ai: 3 Gen: 37
5459 Sim Starting
5460 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5461 Ai: 4 Gen: 37
5462 Sim Starting
5463 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
5464 Ai: 5 Gen: 37
5465 Sim Starting
5466 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 775.6499999999991
5467 Ai: 6 Gen: 37
5468 Sim Starting
5469 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 693.3500000000007
5470 Ai: 7 Gen: 37
5471 Sim Starting
5472 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
5473 Ai: 8 Gen: 37
5474 Sim Starting
5475 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 531.5
5476 Ai: 9 Gen: 37
5477 Sim Starting
5478 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 525.8500000000001
5479 Ai: 10 Gen: 37
5480 Sim Starting
```

```
5481 Sim over Total pop = 0 Tick Complete = 2849
    Fitness = 593.7999999999985
5482 Ai: 11 Gen: 37
5483 Sim Starting
5484 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 339.4
5485 Ai: 12 Gen: 37
5486 Sim Starting
5487 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 197.7499999999983
5488 Ai: 13 Gen: 37
5489 Sim Starting
5490 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 135.5
5491 Ai: 14 Gen: 37
5492 Sim Starting
5493 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 297.35
5494 Ai: 15 Gen: 37
5495 Sim Starting
5496 Sim over Total pop = 0 Tick Complete = 7975
    Fitness = 952.8500000000005
5497 Ai: 16 Gen: 37
5498 Sim Starting
5499 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 442.1499999999975
5500 Ai: 17 Gen: 37
5501 Sim Starting
5502 Sim over Total pop = 0 Tick Complete = 4675
    Fitness = 642.349999999931
5503 Ai: 18 Gen: 37
5504 Sim Starting
5505 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 665.3
5506 Ai: 19 Gen: 37
5507 Sim Starting
5508 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5509 Ai: 20 Gen: 37
5510 Sim Starting
5511 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 863.599999999909
5512 Ai: 21 Gen: 37
5513 Sim Starting
```

```
5514 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 207.75
5515 Ai: 22 Gen: 37
5516 Sim Starting
5517 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 557.350000000001
5518 Ai: 23 Gen: 37
5519 Sim Starting
5520 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 393.8999999999975
5521 Ai: 24 Gen: 37
5522 Sim Starting
5523 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
5524 Ai: 25 Gen: 37
5525 Sim Starting
5526 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 264.25
5527 Ai: 26 Gen: 37
5528 Sim Starting
5529 Sim over Total pop = 0 Tick Complete = 3641
    Fitness = 557.7
5530 Ai: 27 Gen: 37
5531 Sim Starting
5532 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 175.0
5533 Ai: 28 Gen: 37
5534 Sim Starting
5535 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 282.0999999999997
5536 Ai: 29 Gen: 37
5537 Sim Starting
5538 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = 672.600000000001
5539 Ai: 30 Gen: 37
5540 Sim Starting
5541 Sim over Total pop = 0 Tick Complete = 2915
    Fitness = 693.699999999945
5542 Ai: 31 Gen: 37
5543 Sim Starting
5544 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 585.199999999985
5545 Ai: 32 Gen: 37
5546 Sim Starting
```

```
5547 Sim over Total pop = 0 Tick Complete = 2530
    Fitness = 204.9999999999999
5548 Ai: 33 Gen: 37
5549 Sim Starting
5550 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 768.500000000002
5551 Ai: 34 Gen: 37
5552 Sim Starting
5553 Sim over Total pop = 0 Tick Complete = 2057
    Fitness = 423.999999999978
5554 Ai: 35 Gen: 37
5555 Sim Starting
5556 Sim over Total pop = 0 Tick Complete = 2970
    Fitness = 532.3500000000048
5557 Ai: 36 Gen: 37
5558 Sim Starting
5559 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 241.3499999999997
5560 Ai: 37 Gen: 37
5561 Sim Starting
5562 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 228.0
5563 Ai: 38 Gen: 37
5564 Sim Starting
5565 Sim over Total pop = 0 Tick Complete = 4895
    Fitness = 351.2499999999847
5566 Ai: 39 Gen: 37
5567 Sim Starting
5568 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 551.199999999999
5569 Ai: 40 Gen: 37
5570 Sim Starting
5571 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 137.5
5572 Ai: 41 Gen: 37
5573 Sim Starting
5574 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 158.1999999999993
5575 Ai: 42 Gen: 37
5576 Sim Starting
5577 Sim over Total pop = 0 Tick Complete = 16962
    Fitness = 2078.3499999999212
5578 Ai: 43 Gen: 37
5579 Sim Starting
```

```
5580 Sim over Total pop = 0 Tick Complete = 3322
    Fitness = 448.5000000000001
5581 Ai: 44 Gen: 37
5582 Sim Starting
5583 Sim over Total pop = 0 Tick Complete = 6424
    Fitness = 612.85
5584 Ai: 45 Gen: 37
5585 Sim Starting
5586 Sim over Total pop = 0 Tick Complete = 7612
    Fitness = 809.1499999999977
5587 Ai: 46 Gen: 37
5588 Sim Starting
5589 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 191.1499999999999
5590 Ai: 47 Gen: 37
5591 Sim Starting
5592 Sim over Total pop = 0 Tick Complete = 5236
    Fitness = 897.1500000000001
5593 Ai: 48 Gen: 37
5594 Sim Starting
5595 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1826.099999999037
5596 Ai: 49 Gen: 37
5597 Sim Starting
5598 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2293.5999999998357
5599 Ai: 50 Gen: 37
5600 Sim Starting
5601 Sim over Total pop = 0 Tick Complete = 632
    Fitness = 262.0
5602 Ai: 0 Gen: 38
5603 Sim Starting
5604 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
5605 Ai: 1 Gen: 38
5606 Sim Starting
5607 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
5608 Ai: 2 Gen: 38
5609 Sim Starting
5610 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
5611 Ai: 3 Gen: 38
5612 Sim Starting
```

```
5613 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5614 Ai: 4 Gen: 38
5615 Sim Starting
5616 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 611.5
5617 Ai: 5 Gen: 38
5618 Sim Starting
5619 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 229.5
5620 Ai: 6 Gen: 38
5621 Sim Starting
5622 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 250.05
5623 Ai: 7 Gen: 38
5624 Sim Starting
5625 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 146.75
5626 Ai: 8 Gen: 38
5627 Sim Starting
5628 Sim over Total pop = 0 Tick Complete = 3454
    Fitness = 332.85
5629 Ai: 9 Gen: 38
5630 Sim Starting
5631 Sim over Total pop = 0 Tick Complete = 6974
    Fitness = 828.6499999999935
5632 Ai: 10 Gen: 38
5633 Sim Starting
5634 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 707.349999999993
5635 Ai: 11 Gen: 38
5636 Sim Starting
5637 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
5638 Ai: 12 Gen: 38
5639 Sim Starting
5640 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5641 Ai: 13 Gen: 38
5642 Sim Starting
5643 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 336.349999999991
5644 Ai: 14 Gen: 38
5645 Sim Starting
```

```
5646 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 984.0999999999972
5647 Ai: 15 Gen: 38
5648 Sim Starting
5649 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 617.6000000000007
5650 Ai: 16 Gen: 38
5651 Sim Starting
5652 Sim over Total pop = 0 Tick Complete = 3652
    Fitness = 515.7000000000005
5653 Ai: 17 Gen: 38
5654 Sim Starting
5655 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 526.95
5656 Ai: 18 Gen: 38
5657 Sim Starting
5658 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 520.5500000000001
5659 Ai: 19 Gen: 38
5660 Sim Starting
5661 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 677.9999999999986
5662 Ai: 20 Gen: 38
5663 Sim Starting
5664 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 834.7500000000051
5665 Ai: 21 Gen: 38
5666 Sim Starting
5667 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 285.0
5668 Ai: 22 Gen: 38
5669 Sim Starting
5670 Sim over Total pop = 0 Tick Complete = 3487
    Fitness = 1127.1499999999987
5671 Ai: 23 Gen: 38
5672 Sim Starting
5673 Sim over Total pop = 0 Tick Complete = 2761
    Fitness = 372.49999999999875
5674 Ai: 24 Gen: 38
5675 Sim Starting
5676 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 131.74999999999997
5677 Ai: 25 Gen: 38
5678 Sim Starting
```

```
5679 Sim over Total pop = 0 Tick Complete = 1848
    Fitness = 427.9500000000013
5680 Ai: 26 Gen: 38
5681 Sim Starting
5682 Sim over Total pop = 0 Tick Complete = 1837
    Fitness = 484.95000000000175
5683 Ai: 27 Gen: 38
5684 Sim Starting
5685 Sim over Total pop = 0 Tick Complete = 3641
    Fitness = 1253.3500000000067
5686 Ai: 28 Gen: 38
5687 Sim Starting
5688 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 233.90000000000015
5689 Ai: 29 Gen: 38
5690 Sim Starting
5691 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 133.75000000000023
5692 Ai: 30 Gen: 38
5693 Sim Starting
5694 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -186.75
5695 Ai: 31 Gen: 38
5696 Sim Starting
5697 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 160.95
5698 Ai: 32 Gen: 38
5699 Sim Starting
5700 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 547.799999999999
5701 Ai: 33 Gen: 38
5702 Sim Starting
5703 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 472.4999999999886
5704 Ai: 34 Gen: 38
5705 Sim Starting
5706 Sim over Total pop = 0 Tick Complete = 15433
    Fitness = 842.2500000000222
5707 Ai: 35 Gen: 38
5708 Sim Starting
5709 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 363.2999999999876
5710 Ai: 36 Gen: 38
5711 Sim Starting
```

```
5712 Sim over Total pop = 0 Tick Complete = 1705
      Fitness = 312.9000000000023
5713 Ai: 37 Gen: 38
5714 Sim Starting
5715 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 333.5
5716 Ai: 38 Gen: 38
5717 Sim Starting
5718 Sim over Total pop = 0 Tick Complete = 671
      Fitness = 268.0
5719 Ai: 39 Gen: 38
5720 Sim Starting
5721 Sim over Total pop = 0 Tick Complete = 583
      Fitness = 131.0
5722 Ai: 40 Gen: 38
5723 Sim Starting
5724 Sim over Total pop = 6 Tick Complete = 20001
      Fitness = 3380.799999996714
5725 Ai: 41 Gen: 38
5726 Sim Starting
5727 Sim over Total pop = 0 Tick Complete = 11360
      Fitness = 907.25
5728 Ai: 42 Gen: 38
5729 Sim Starting
5730 Sim over Total pop = 2 Tick Complete = 20001
      Fitness = 2035.84999999872
5731 Ai: 43 Gen: 38
5732 Sim Starting
5733 Sim over Total pop = 0 Tick Complete = 5398
      Fitness = 754.500000000144
5734 Ai: 44 Gen: 38
5735 Sim Starting
5736 Sim over Total pop = 0 Tick Complete = 6996
      Fitness = 718.5
5737 Ai: 45 Gen: 38
5738 Sim Starting
5739 Sim over Total pop = 2 Tick Complete = 20001
      Fitness = 1213.1499999999994
5740 Ai: 46 Gen: 38
5741 Sim Starting
5742 Sim over Total pop = 0 Tick Complete = 580
      Fitness = 130.0
5743 Ai: 47 Gen: 38
5744 Sim Starting
```

```
5745 Sim over Total pop = 0 Tick Complete = 3399
    Fitness = 188.34999999999863
5746 Ai: 48 Gen: 38
5747 Sim Starting
5748 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 164.0499999999995
5749 Ai: 49 Gen: 38
5750 Sim Starting
5751 Sim over Total pop = 0 Tick Complete = 6446
    Fitness = 743.9000000000103
5752 Ai: 50 Gen: 38
5753 Sim Starting
5754 Sim over Total pop = 0 Tick Complete = 3025
    Fitness = 440.0000000000005
5755 Ai: 0 Gen: 39
5756 Sim Starting
5757 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 366.5
5758 Ai: 1 Gen: 39
5759 Sim Starting
5760 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 377.5
5761 Ai: 2 Gen: 39
5762 Sim Starting
5763 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
5764 Ai: 3 Gen: 39
5765 Sim Starting
5766 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
5767 Ai: 4 Gen: 39
5768 Sim Starting
5769 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 366.5
5770 Ai: 5 Gen: 39
5771 Sim Starting
5772 Sim over Total pop = 0 Tick Complete = 5049
    Fitness = 917.2000000001
5773 Ai: 6 Gen: 39
5774 Sim Starting
5775 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 518.9500000000011
5776 Ai: 7 Gen: 39
5777 Sim Starting
```

```
5778 Sim over Total pop = 0 Tick Complete = 2068
      Fitness = 228.40000000000026
5779 Ai: 8 Gen: 39
5780 Sim Starting
5781 Sim over Total pop = 0 Tick Complete = 1166
      Fitness = 202.0
5782 Ai: 9 Gen: 39
5783 Sim Starting
5784 Sim over Total pop = 0 Tick Complete = 693
      Fitness = 243.2999999999995
5785 Ai: 10 Gen: 39
5786 Sim Starting
5787 Sim over Total pop = 0 Tick Complete = 1034
      Fitness = 165.75
5788 Ai: 11 Gen: 39
5789 Sim Starting
5790 Sim over Total pop = 0 Tick Complete = 1078
      Fitness = 358.2999999999995
5791 Ai: 12 Gen: 39
5792 Sim Starting
5793 Sim over Total pop = 0 Tick Complete = 1078
      Fitness = 178.2499999999997
5794 Ai: 13 Gen: 39
5795 Sim Starting
5796 Sim over Total pop = 0 Tick Complete = 2420
      Fitness = 1041.2500000000002
5797 Ai: 14 Gen: 39
5798 Sim Starting
5799 Sim over Total pop = 0 Tick Complete = 5401
      Fitness = 488.9499999999067
5800 Ai: 15 Gen: 39
5801 Sim Starting
5802 Sim over Total pop = 0 Tick Complete = 4136
      Fitness = 1067.849999999987
5803 Ai: 16 Gen: 39
5804 Sim Starting
5805 Sim over Total pop = 0 Tick Complete = 825
      Fitness = 265.0
5806 Ai: 17 Gen: 39
5807 Sim Starting
5808 Sim over Total pop = 0 Tick Complete = 1023
      Fitness = 263.5499999999984
5809 Ai: 18 Gen: 39
5810 Sim Starting
```

```
5811 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 247.79999999999984
5812 Ai: 19 Gen: 39
5813 Sim Starting
5814 Sim over Total pop = 0 Tick Complete = 7469
    Fitness = 872.600000000263
5815 Ai: 20 Gen: 39
5816 Sim Starting
5817 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 339.30000000000007
5818 Ai: 21 Gen: 39
5819 Sim Starting
5820 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 322.64999999999935
5821 Ai: 22 Gen: 39
5822 Sim Starting
5823 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
5824 Ai: 23 Gen: 39
5825 Sim Starting
5826 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 172.75
5827 Ai: 24 Gen: 39
5828 Sim Starting
5829 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
5830 Ai: 25 Gen: 39
5831 Sim Starting
5832 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 235.40000000000015
5833 Ai: 26 Gen: 39
5834 Sim Starting
5835 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 179.75
5836 Ai: 27 Gen: 39
5837 Sim Starting
5838 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 260.0
5839 Ai: 28 Gen: 39
5840 Sim Starting
5841 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5842 Ai: 29 Gen: 39
5843 Sim Starting
```

```
5844 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 275.7000000000004
5845 Ai: 30 Gen: 39
5846 Sim Starting
5847 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 378.0
5848 Ai: 31 Gen: 39
5849 Sim Starting
5850 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 231.3000000000007
5851 Ai: 32 Gen: 39
5852 Sim Starting
5853 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 425.3999999999992
5854 Ai: 33 Gen: 39
5855 Sim Starting
5856 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 69.8499999999977
5857 Ai: 34 Gen: 39
5858 Sim Starting
5859 Sim over Total pop = 0 Tick Complete = 10626
    Fitness = 1478.799999999458
5860 Ai: 35 Gen: 39
5861 Sim Starting
5862 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 663.70000000001
5863 Ai: 36 Gen: 39
5864 Sim Starting
5865 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 173.5
5866 Ai: 37 Gen: 39
5867 Sim Starting
5868 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 44.7999999999991
5869 Ai: 38 Gen: 39
5870 Sim Starting
5871 Sim over Total pop = 0 Tick Complete = 4312
    Fitness = 563.150000000069
5872 Ai: 39 Gen: 39
5873 Sim Starting
5874 Sim over Total pop = 0 Tick Complete = 1837
    Fitness = 286.1499999999935
5875 Ai: 40 Gen: 39
5876 Sim Starting
```

```
5877 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 296.2000000000013
5878 Ai: 41 Gen: 39
5879 Sim Starting
5880 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 659.5000000000005
5881 Ai: 42 Gen: 39
5882 Sim Starting
5883 Sim over Total pop = 0 Tick Complete = 11022
    Fitness = 1821.3500000000925
5884 Ai: 43 Gen: 39
5885 Sim Starting
5886 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2292.49999999836
5887 Ai: 44 Gen: 39
5888 Sim Starting
5889 Sim over Total pop = 0 Tick Complete = 12471
    Fitness = 1159.9500000000019
5890 Ai: 45 Gen: 39
5891 Sim Starting
5892 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 560.9000000000017
5893 Ai: 46 Gen: 39
5894 Sim Starting
5895 Sim over Total pop = 0 Tick Complete = 17512
    Fitness = 2146.799999998665
5896 Ai: 47 Gen: 39
5897 Sim Starting
5898 Sim over Total pop = 0 Tick Complete = 7326
    Fitness = 1306.9500000000276
5899 Ai: 48 Gen: 39
5900 Sim Starting
5901 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5902 Ai: 49 Gen: 39
5903 Sim Starting
5904 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5905 Ai: 50 Gen: 39
5906 Sim Starting
5907 Sim over Total pop = 0 Tick Complete = 803
    Fitness = -153.5000000000001
5908 Ai: 51 Gen: 39
5909 Sim Starting
```

```
5910 Sim over Total pop = 0 Tick Complete = 4400
    Fitness = 675.0500000000002
5911 Ai: 0 Gen: 40
5912 Sim Starting
5913 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 186.6500000000001
5914 Ai: 1 Gen: 40
5915 Sim Starting
5916 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
5917 Ai: 2 Gen: 40
5918 Sim Starting
5919 Sim over Total pop = 0 Tick Complete = 4279
    Fitness = 657.600000000025
5920 Ai: 3 Gen: 40
5921 Sim Starting
5922 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -139.2
5923 Ai: 4 Gen: 40
5924 Sim Starting
5925 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = -57.94999999999998
5926 Ai: 5 Gen: 40
5927 Sim Starting
5928 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
5929 Ai: 6 Gen: 40
5930 Sim Starting
5931 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
5932 Ai: 7 Gen: 40
5933 Sim Starting
5934 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
5935 Ai: 8 Gen: 40
5936 Sim Starting
5937 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5938 Ai: 9 Gen: 40
5939 Sim Starting
5940 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5941 Ai: 10 Gen: 40
5942 Sim Starting
```

```
5943 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
5944 Ai: 11 Gen: 40
5945 Sim Starting
5946 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
5947 Ai: 12 Gen: 40
5948 Sim Starting
5949 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 213.34999999999962
5950 Ai: 13 Gen: 40
5951 Sim Starting
5952 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 369.5500000000003
5953 Ai: 14 Gen: 40
5954 Sim Starting
5955 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 156.05
5956 Ai: 15 Gen: 40
5957 Sim Starting
5958 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 682.9000000000007
5959 Ai: 16 Gen: 40
5960 Sim Starting
5961 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 381.6000000000036
5962 Ai: 17 Gen: 40
5963 Sim Starting
5964 Sim over Total pop = 0 Tick Complete = 3355
    Fitness = 273.3500000000014
5965 Ai: 18 Gen: 40
5966 Sim Starting
5967 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 456.9000000000055
5968 Ai: 19 Gen: 40
5969 Sim Starting
5970 Sim over Total pop = 0 Tick Complete = 5038
    Fitness = 464.0
5971 Ai: 20 Gen: 40
5972 Sim Starting
5973 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
5974 Ai: 21 Gen: 40
5975 Sim Starting
```

```
5976 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 584.4500000000024
5977 Ai: 22 Gen: 40
5978 Sim Starting
5979 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
5980 Ai: 23 Gen: 40
5981 Sim Starting
5982 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 292.5
5983 Ai: 24 Gen: 40
5984 Sim Starting
5985 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 491.35000000000184
5986 Ai: 25 Gen: 40
5987 Sim Starting
5988 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 195.25
5989 Ai: 26 Gen: 40
5990 Sim Starting
5991 Sim over Total pop = 0 Tick Complete = 4488
    Fitness = 748.349999999998
5992 Ai: 27 Gen: 40
5993 Sim Starting
5994 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 181.5
5995 Ai: 28 Gen: 40
5996 Sim Starting
5997 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 997.649999999992
5998 Ai: 29 Gen: 40
5999 Sim Starting
6000 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 276.5
6001 Ai: 30 Gen: 40
6002 Sim Starting
6003 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 396.450000000004
6004 Ai: 31 Gen: 40
6005 Sim Starting
6006 Sim over Total pop = 0 Tick Complete = 7777
    Fitness = 1121.5499999999984
6007 Ai: 32 Gen: 40
6008 Sim Starting
```

```
6009 Sim over Total pop = 0 Tick Complete = 2090
    Fitness = 623.8499999999982
6010 Ai: 33 Gen: 40
6011 Sim Starting
6012 Sim over Total pop = 0 Tick Complete = 6754
    Fitness = 626.9000000000125
6013 Ai: 34 Gen: 40
6014 Sim Starting
6015 Sim over Total pop = 0 Tick Complete = 3102
    Fitness = 513.6999999999997
6016 Ai: 35 Gen: 40
6017 Sim Starting
6018 Sim over Total pop = 0 Tick Complete = 18293
    Fitness = 2339.8499999999962
6019 Ai: 36 Gen: 40
6020 Sim Starting
6021 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 165.3999999999984
6022 Ai: 37 Gen: 40
6023 Sim Starting
6024 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 87.35000000000002
6025 Ai: 38 Gen: 40
6026 Sim Starting
6027 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 137.9
6028 Ai: 39 Gen: 40
6029 Sim Starting
6030 Sim over Total pop = 0 Tick Complete = 2805
    Fitness = 457.0500000000047
6031 Ai: 40 Gen: 40
6032 Sim Starting
6033 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 315.8000000000075
6034 Ai: 41 Gen: 40
6035 Sim Starting
6036 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 136.0
6037 Ai: 42 Gen: 40
6038 Sim Starting
6039 Sim over Total pop = 0 Tick Complete = 9218
    Fitness = 724.8499999999999
6040 Ai: 43 Gen: 40
6041 Sim Starting
```

```
6042 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2554.4999999997904
6043 Ai: 44 Gen: 40
6044 Sim Starting
6045 Sim over Total pop = 0 Tick Complete = 7752
    Fitness = 1156.75
6046 Ai: 45 Gen: 40
6047 Sim Starting
6048 Sim over Total pop = 0 Tick Complete = 16544
    Fitness = 856.0
6049 Ai: 46 Gen: 40
6050 Sim Starting
6051 Sim over Total pop = 0 Tick Complete = 6875
    Fitness = 1159.050000000007
6052 Ai: 47 Gen: 40
6053 Sim Starting
6054 Sim over Total pop = 0 Tick Complete = 8228
    Fitness = 482.600000000001
6055 Ai: 48 Gen: 40
6056 Sim Starting
6057 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 145.000000000003
6058 Ai: 49 Gen: 40
6059 Sim Starting
6060 Sim over Total pop = 0 Tick Complete = 6644
    Fitness = 885.550000000069
6061 Ai: 50 Gen: 40
6062 Sim Starting
6063 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6064 Ai: 51 Gen: 40
6065 Sim Starting
6066 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2380.600000000085
6067 Ai: 0 Gen: 41
6068 Sim Starting
6069 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 317.0
6070 Ai: 1 Gen: 41
6071 Sim Starting
6072 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
6073 Ai: 2 Gen: 41
6074 Sim Starting
```

```
6075 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
6076 Ai: 3 Gen: 41
6077 Sim Starting
6078 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
6079 Ai: 4 Gen: 41
6080 Sim Starting
6081 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 295.0
6082 Ai: 5 Gen: 41
6083 Sim Starting
6084 Sim over Total pop = 0 Tick Complete = 3179
    Fitness = 522.100000000005
6085 Ai: 6 Gen: 41
6086 Sim Starting
6087 Sim over Total pop = 0 Tick Complete = 1892
    Fitness = 520.249999999982
6088 Ai: 7 Gen: 41
6089 Sim Starting
6090 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 148.0
6091 Ai: 8 Gen: 41
6092 Sim Starting
6093 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 425.9999999999756
6094 Ai: 9 Gen: 41
6095 Sim Starting
6096 Sim over Total pop = 0 Tick Complete = 3080
    Fitness = 557.7
6097 Ai: 10 Gen: 41
6098 Sim Starting
6099 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 606.800000000004
6100 Ai: 11 Gen: 41
6101 Sim Starting
6102 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
6103 Ai: 12 Gen: 41
6104 Sim Starting
6105 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 304.85
6106 Ai: 13 Gen: 41
6107 Sim Starting
```

```
6108 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
6109 Ai: 14 Gen: 41
6110 Sim Starting
6111 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 718.2499999999989
6112 Ai: 15 Gen: 41
6113 Sim Starting
6114 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 269.0
6115 Ai: 16 Gen: 41
6116 Sim Starting
6117 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 231.35000000000002
6118 Ai: 17 Gen: 41
6119 Sim Starting
6120 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 637.999999999997
6121 Ai: 18 Gen: 41
6122 Sim Starting
6123 Sim over Total pop = 0 Tick Complete = 748
    Fitness = -105.2999999999997
6124 Ai: 19 Gen: 41
6125 Sim Starting
6126 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 432.1999999999965
6127 Ai: 20 Gen: 41
6128 Sim Starting
6129 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 475.3499999999627
6130 Ai: 21 Gen: 41
6131 Sim Starting
6132 Sim over Total pop = 0 Tick Complete = 10164
    Fitness = 927.0500000000015
6133 Ai: 22 Gen: 41
6134 Sim Starting
6135 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 180.0
6136 Ai: 23 Gen: 41
6137 Sim Starting
6138 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 273.3500000000002
6139 Ai: 24 Gen: 41
6140 Sim Starting
```

```
6141 Sim over Total pop = 0 Tick Complete = 1892
    Fitness = 412.75000000000273
6142 Ai: 25 Gen: 41
6143 Sim Starting
6144 Sim over Total pop = 0 Tick Complete = 5060
    Fitness = 930.0500000000001
6145 Ai: 26 Gen: 41
6146 Sim Starting
6147 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 206.55000000000064
6148 Ai: 27 Gen: 41
6149 Sim Starting
6150 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
6151 Ai: 28 Gen: 41
6152 Sim Starting
6153 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 278.5
6154 Ai: 29 Gen: 41
6155 Sim Starting
6156 Sim over Total pop = 0 Tick Complete = 12210
    Fitness = 756.149999999996
6157 Ai: 30 Gen: 41
6158 Sim Starting
6159 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
6160 Ai: 31 Gen: 41
6161 Sim Starting
6162 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 672.8500000000033
6163 Ai: 32 Gen: 41
6164 Sim Starting
6165 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 208.5
6166 Ai: 33 Gen: 41
6167 Sim Starting
6168 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 553.3500000000014
6169 Ai: 34 Gen: 41
6170 Sim Starting
6171 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = -26.299999999999997
6172 Ai: 35 Gen: 41
6173 Sim Starting
```

```
6174 Sim over Total pop = 0 Tick Complete = 12672
    Fitness = 1662.54999999999
6175 Ai: 36 Gen: 41
6176 Sim Starting
6177 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 151.1999999999999
6178 Ai: 37 Gen: 41
6179 Sim Starting
6180 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 678.500000000026
6181 Ai: 38 Gen: 41
6182 Sim Starting
6183 Sim over Total pop = 0 Tick Complete = 9306
    Fitness = 771.849999999891
6184 Ai: 39 Gen: 41
6185 Sim Starting
6186 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1212.199999999996
6187 Ai: 40 Gen: 41
6188 Sim Starting
6189 Sim over Total pop = 0 Tick Complete = 591
    Fitness = 132.1999999999993
6190 Ai: 41 Gen: 41
6191 Sim Starting
6192 Sim over Total pop = 0 Tick Complete = 11330
    Fitness = 2081.400000000365
6193 Ai: 42 Gen: 41
6194 Sim Starting
6195 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1300.200000000126
6196 Ai: 43 Gen: 41
6197 Sim Starting
6198 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1621.799999999165
6199 Ai: 44 Gen: 41
6200 Sim Starting
6201 Sim over Total pop = 0 Tick Complete = 10081
    Fitness = 577.199999999999
6202 Ai: 45 Gen: 41
6203 Sim Starting
6204 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.299999999997
6205 Ai: 46 Gen: 41
6206 Sim Starting
```

```
6207 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
6208 Ai: 47 Gen: 41
6209 Sim Starting
6210 Sim over Total pop = 0 Tick Complete = 13057
    Fitness = 810.900000000209
6211 Ai: 48 Gen: 41
6212 Sim Starting
6213 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6214 Ai: 49 Gen: 41
6215 Sim Starting
6216 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2088.19999999857
6217 Ai: 0 Gen: 42
6218 Sim Starting
6219 Sim over Total pop = 0 Tick Complete = 2549
    Fitness = 665.149999999968
6220 Ai: 1 Gen: 42
6221 Sim Starting
6222 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 522.999999999998
6223 Ai: 2 Gen: 42
6224 Sim Starting
6225 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 407.199999999998
6226 Ai: 3 Gen: 42
6227 Sim Starting
6228 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 239.1499999999992
6229 Ai: 4 Gen: 42
6230 Sim Starting
6231 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 417.5
6232 Ai: 5 Gen: 42
6233 Sim Starting
6234 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
6235 Ai: 6 Gen: 42
6236 Sim Starting
6237 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 381.749999999993
6238 Ai: 7 Gen: 42
6239 Sim Starting
```

```
6240 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
6241 Ai: 8 Gen: 42
6242 Sim Starting
6243 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 168.5
6244 Ai: 9 Gen: 42
6245 Sim Starting
6246 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
6247 Ai: 10 Gen: 42
6248 Sim Starting
6249 Sim over Total pop = 0 Tick Complete = 5115
    Fitness = 549.749999999995
6250 Ai: 11 Gen: 42
6251 Sim Starting
6252 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 60.5
6253 Ai: 12 Gen: 42
6254 Sim Starting
6255 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 131.600000000002
6256 Ai: 13 Gen: 42
6257 Sim Starting
6258 Sim over Total pop = 0 Tick Complete = 13530
    Fitness = 1287.100000000051
6259 Ai: 14 Gen: 42
6260 Sim Starting
6261 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 274.249999999986
6262 Ai: 15 Gen: 42
6263 Sim Starting
6264 Sim over Total pop = 0 Tick Complete = 3311
    Fitness = 74.6499999999951
6265 Ai: 16 Gen: 42
6266 Sim Starting
6267 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 369.199999999999
6268 Ai: 17 Gen: 42
6269 Sim Starting
6270 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 184.2499999999977
6271 Ai: 18 Gen: 42
6272 Sim Starting
```

```
6273 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1150.5500000000002
6274 Ai: 19 Gen: 42
6275 Sim Starting
6276 Sim over Total pop = 0 Tick Complete = 701
    Fitness = 214.0
6277 Ai: 20 Gen: 42
6278 Sim Starting
6279 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 176.3000000000032
6280 Ai: 21 Gen: 42
6281 Sim Starting
6282 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 401.349999999998
6283 Ai: 22 Gen: 42
6284 Sim Starting
6285 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 194.300000000003
6286 Ai: 23 Gen: 42
6287 Sim Starting
6288 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 203.5
6289 Ai: 24 Gen: 42
6290 Sim Starting
6291 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 429.099999999986
6292 Ai: 25 Gen: 42
6293 Sim Starting
6294 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 264.849999999993
6295 Ai: 26 Gen: 42
6296 Sim Starting
6297 Sim over Total pop = 0 Tick Complete = 2365
    Fitness = 301.800000000001
6298 Ai: 27 Gen: 42
6299 Sim Starting
6300 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
6301 Ai: 28 Gen: 42
6302 Sim Starting
6303 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 524.549999999996
6304 Ai: 29 Gen: 42
6305 Sim Starting
```

```
6306 Sim over Total pop = 0 Tick Complete = 3366
    Fitness = 985.600000000011
6307 Ai: 30 Gen: 42
6308 Sim Starting
6309 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
6310 Ai: 31 Gen: 42
6311 Sim Starting
6312 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 174.1999999999996
6313 Ai: 32 Gen: 42
6314 Sim Starting
6315 Sim over Total pop = 0 Tick Complete = 5808
    Fitness = 824.950000000005
6316 Ai: 33 Gen: 42
6317 Sim Starting
6318 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 341.3500000000006
6319 Ai: 34 Gen: 42
6320 Sim Starting
6321 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 186.8500000000014
6322 Ai: 35 Gen: 42
6323 Sim Starting
6324 Sim over Total pop = 0 Tick Complete = 7513
    Fitness = 1202.3500000000008
6325 Ai: 36 Gen: 42
6326 Sim Starting
6327 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 654.899999999996
6328 Ai: 37 Gen: 42
6329 Sim Starting
6330 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 191.799999999993
6331 Ai: 38 Gen: 42
6332 Sim Starting
6333 Sim over Total pop = 0 Tick Complete = 18667
    Fitness = 1770.199999999828
6334 Ai: 39 Gen: 42
6335 Sim Starting
6336 Sim over Total pop = 0 Tick Complete = 8877
    Fitness = 891.149999999958
6337 Ai: 40 Gen: 42
6338 Sim Starting
```

```
6339 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 845.0
6340 Ai: 41 Gen: 42
6341 Sim Starting
6342 Sim over Total pop = 0 Tick Complete = 13596
    Fitness = 1963.0499999999874
6343 Ai: 42 Gen: 42
6344 Sim Starting
6345 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
6346 Ai: 43 Gen: 42
6347 Sim Starting
6348 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6349 Ai: 44 Gen: 42
6350 Sim Starting
6351 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2396.5999999998144
6352 Ai: 45 Gen: 42
6353 Sim Starting
6354 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1392.9500000000514
6355 Ai: 46 Gen: 42
6356 Sim Starting
6357 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
6358 Ai: 47 Gen: 42
6359 Sim Starting
6360 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2550.949999999857
6361 Ai: 48 Gen: 42
6362 Sim Starting
6363 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
6364 Ai: 49 Gen: 42
6365 Sim Starting
6366 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6367 Ai: 0 Gen: 43
6368 Sim Starting
6369 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 111.5
6370 Ai: 1 Gen: 43
6371 Sim Starting
```

```
6372 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 583.749999999999
6373 Ai: 2 Gen: 43
6374 Sim Starting
6375 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 838.099999999992
6376 Ai: 3 Gen: 43
6377 Sim Starting
6378 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
6379 Ai: 4 Gen: 43
6380 Sim Starting
6381 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 325.1499999999935
6382 Ai: 5 Gen: 43
6383 Sim Starting
6384 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -183.0
6385 Ai: 6 Gen: 43
6386 Sim Starting
6387 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 213.2499999999903
6388 Ai: 7 Gen: 43
6389 Sim Starting
6390 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 162.7499999999966
6391 Ai: 8 Gen: 43
6392 Sim Starting
6393 Sim over Total pop = 0 Tick Complete = 4554
    Fitness = 389.0
6394 Ai: 9 Gen: 43
6395 Sim Starting
6396 Sim over Total pop = 0 Tick Complete = 6754
    Fitness = 459.3500000000004
6397 Ai: 10 Gen: 43
6398 Sim Starting
6399 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
6400 Ai: 11 Gen: 43
6401 Sim Starting
6402 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 130.3
6403 Ai: 12 Gen: 43
6404 Sim Starting
```

```
6405 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 306.5
6406 Ai: 13 Gen: 43
6407 Sim Starting
6408 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 389.6499999999998
6409 Ai: 14 Gen: 43
6410 Sim Starting
6411 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
6412 Ai: 15 Gen: 43
6413 Sim Starting
6414 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 614.049999999998
6415 Ai: 16 Gen: 43
6416 Sim Starting
6417 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 212.45000000000005
6418 Ai: 17 Gen: 43
6419 Sim Starting
6420 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1060.75
6421 Ai: 18 Gen: 43
6422 Sim Starting
6423 Sim over Total pop = 0 Tick Complete = 701
    Fitness = 128.0
6424 Ai: 19 Gen: 43
6425 Sim Starting
6426 Sim over Total pop = 0 Tick Complete = 4114
    Fitness = 622.3000000000017
6427 Ai: 20 Gen: 43
6428 Sim Starting
6429 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6430 Ai: 21 Gen: 43
6431 Sim Starting
6432 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 591.999999999987
6433 Ai: 22 Gen: 43
6434 Sim Starting
6435 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 112.70000000000005
6436 Ai: 23 Gen: 43
6437 Sim Starting
```

```
6438 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 410.45000000000414
6439 Ai: 24 Gen: 43
6440 Sim Starting
6441 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 131.5
6442 Ai: 25 Gen: 43
6443 Sim Starting
6444 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 134.8499999999999
6445 Ai: 26 Gen: 43
6446 Sim Starting
6447 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
6448 Ai: 27 Gen: 43
6449 Sim Starting
6450 Sim over Total pop = 0 Tick Complete = 6248
    Fitness = 799.8999999999922
6451 Ai: 28 Gen: 43
6452 Sim Starting
6453 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 207.0
6454 Ai: 29 Gen: 43
6455 Sim Starting
6456 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 743.6500000000007
6457 Ai: 30 Gen: 43
6458 Sim Starting
6459 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 291.85
6460 Ai: 31 Gen: 43
6461 Sim Starting
6462 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 322.6999999999997
6463 Ai: 32 Gen: 43
6464 Sim Starting
6465 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -121.65
6466 Ai: 33 Gen: 43
6467 Sim Starting
6468 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3278.299999999681
6469 Ai: 34 Gen: 43
6470 Sim Starting
```

```
6471 Sim over Total pop = 0 Tick Complete = 6157
    Fitness = 384.0
6472 Ai: 35 Gen: 43
6473 Sim Starting
6474 Sim over Total pop = 0 Tick Complete = 10175
    Fitness = 1279.8000000000304
6475 Ai: 36 Gen: 43
6476 Sim Starting
6477 Sim over Total pop = 0 Tick Complete = 5698
    Fitness = 940.5000000000023
6478 Ai: 37 Gen: 43
6479 Sim Starting
6480 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2480.8999999998264
6481 Ai: 38 Gen: 43
6482 Sim Starting
6483 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2999.699999999723
6484 Ai: 39 Gen: 43
6485 Sim Starting
6486 Sim over Total pop = 0 Tick Complete = 632
    Fitness = 223.5
6487 Ai: 40 Gen: 43
6488 Sim Starting
6489 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
6490 Ai: 41 Gen: 43
6491 Sim Starting
6492 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 137.7
6493 Ai: 42 Gen: 43
6494 Sim Starting
6495 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6496 Ai: 43 Gen: 43
6497 Sim Starting
6498 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6499 Ai: 44 Gen: 43
6500 Sim Starting
6501 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6502 Ai: 45 Gen: 43
6503 Sim Starting
```

```
6504 Sim over Total pop = 0 Tick Complete = 9064
    Fitness = 1362.8500000000436
6505 Ai: 46 Gen: 43
6506 Sim Starting
6507 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 307.3000000000155
6508 Ai: 47 Gen: 43
6509 Sim Starting
6510 Sim over Total pop = 0 Tick Complete = 2420
    Fitness = 214.0
6511 Ai: 48 Gen: 43
6512 Sim Starting
6513 Sim over Total pop = 0 Tick Complete = 13728
    Fitness = 1051.849999999813
6514 Ai: 0 Gen: 44
6515 Sim Starting
6516 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 224.75
6517 Ai: 1 Gen: 44
6518 Sim Starting
6519 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 462.45
6520 Ai: 2 Gen: 44
6521 Sim Starting
6522 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 107.4500000000005
6523 Ai: 3 Gen: 44
6524 Sim Starting
6525 Sim over Total pop = 0 Tick Complete = 9361
    Fitness = 782.4500000000179
6526 Ai: 4 Gen: 44
6527 Sim Starting
6528 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 682.3500000000028
6529 Ai: 5 Gen: 44
6530 Sim Starting
6531 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1840.649999999273
6532 Ai: 6 Gen: 44
6533 Sim Starting
6534 Sim over Total pop = 0 Tick Complete = 2087
    Fitness = 365.599999999975
6535 Ai: 7 Gen: 44
6536 Sim Starting
```

```
6537 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 600.8500000000018
6538 Ai: 8 Gen: 44
6539 Sim Starting
6540 Sim over Total pop = 0 Tick Complete = 11451
    Fitness = 1013.6499999999992
6541 Ai: 9 Gen: 44
6542 Sim Starting
6543 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2189.799999999891
6544 Ai: 10 Gen: 44
6545 Sim Starting
6546 Sim over Total pop = 0 Tick Complete = 18290
    Fitness = 1110.8999999999999
6547 Ai: 11 Gen: 44
6548 Sim Starting
6549 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
6550 Ai: 12 Gen: 44
6551 Sim Starting
6552 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 620.599999999999
6553 Ai: 13 Gen: 44
6554 Sim Starting
6555 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 229.1999999999968
6556 Ai: 14 Gen: 44
6557 Sim Starting
6558 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 207.0500000000007
6559 Ai: 15 Gen: 44
6560 Sim Starting
6561 Sim over Total pop = 0 Tick Complete = 7799
    Fitness = 530.800000000103
6562 Ai: 16 Gen: 44
6563 Sim Starting
6564 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 288.5
6565 Ai: 17 Gen: 44
6566 Sim Starting
6567 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 278.6500000000001
6568 Ai: 18 Gen: 44
6569 Sim Starting
```

```
6570 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 187.20000000000047
6571 Ai: 19 Gen: 44
6572 Sim Starting
6573 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 209.94999999999936
6574 Ai: 20 Gen: 44
6575 Sim Starting
6576 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 302.70000000000005
6577 Ai: 21 Gen: 44
6578 Sim Starting
6579 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 185.00000000000006
6580 Ai: 22 Gen: 44
6581 Sim Starting
6582 Sim over Total pop = 0 Tick Complete = 3465
    Fitness = 808.599999999995
6583 Ai: 23 Gen: 44
6584 Sim Starting
6585 Sim over Total pop = 0 Tick Complete = 7755
    Fitness = 480.90000000000003
6586 Ai: 24 Gen: 44
6587 Sim Starting
6588 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 350.999999999998
6589 Ai: 25 Gen: 44
6590 Sim Starting
6591 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 202.0
6592 Ai: 26 Gen: 44
6593 Sim Starting
6594 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6595 Ai: 27 Gen: 44
6596 Sim Starting
6597 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 736.4000000000017
6598 Ai: 28 Gen: 44
6599 Sim Starting
6600 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 238.05000000000013
6601 Ai: 29 Gen: 44
6602 Sim Starting
```

```
6603 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 559.8500000000062
6604 Ai: 30 Gen: 44
6605 Sim Starting
6606 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 323.0
6607 Ai: 31 Gen: 44
6608 Sim Starting
6609 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 278.150000000001
6610 Ai: 32 Gen: 44
6611 Sim Starting
6612 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3160.59999999704
6613 Ai: 33 Gen: 44
6614 Sim Starting
6615 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3954.599999995784
6616 Ai: 34 Gen: 44
6617 Sim Starting
6618 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1769.3500000000204
6619 Ai: 35 Gen: 44
6620 Sim Starting
6621 Sim over Total pop = 0 Tick Complete = 6712
    Fitness = 430.9
6622 Ai: 36 Gen: 44
6623 Sim Starting
6624 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6625 Ai: 37 Gen: 44
6626 Sim Starting
6627 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6628 Ai: 38 Gen: 44
6629 Sim Starting
6630 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1913.099999999372
6631 Ai: 39 Gen: 44
6632 Sim Starting
6633 Sim over Total pop = 0 Tick Complete = 767
    Fitness = 162.1999999999976
6634 Ai: 40 Gen: 44
6635 Sim Starting
```

```
6636 Sim over Total pop = 0 Tick Complete = 17105
    Fitness = 1763.6499999999091
6637 Ai: 41 Gen: 44
6638 Sim Starting
6639 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2965.899999997304
6640 Ai: 42 Gen: 44
6641 Sim Starting
6642 Sim over Total pop = 0 Tick Complete = 7862
    Fitness = 1004.9000000000167
6643 Ai: 43 Gen: 44
6644 Sim Starting
6645 Sim over Total pop = 0 Tick Complete = 8844
    Fitness = 882.55
6646 Ai: 44 Gen: 44
6647 Sim Starting
6648 Sim over Total pop = 0 Tick Complete = 6380
    Fitness = 394.0
6649 Ai: 45 Gen: 44
6650 Sim Starting
6651 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6652 Ai: 46 Gen: 44
6653 Sim Starting
6654 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 136.75
6655 Ai: 47 Gen: 44
6656 Sim Starting
6657 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6658 Ai: 48 Gen: 44
6659 Sim Starting
6660 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 181.6499999999978
6661 Ai: 49 Gen: 44
6662 Sim Starting
6663 Sim over Total pop = 0 Tick Complete = 4510
    Fitness = 599.4499999999998
6664 Ai: 50 Gen: 44
6665 Sim Starting
6666 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1536.4999999999513
6667 Ai: 0 Gen: 45
6668 Sim Starting
```

```
6669 Sim over Total pop = 0 Tick Complete = 3396
    Fitness = 445.34999999999997
6670 Ai: 1 Gen: 45
6671 Sim Starting
6672 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 246.3000000000024
6673 Ai: 2 Gen: 45
6674 Sim Starting
6675 Sim over Total pop = 0 Tick Complete = 3058
    Fitness = 265.9
6676 Ai: 3 Gen: 45
6677 Sim Starting
6678 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 547.0500000000043
6679 Ai: 4 Gen: 45
6680 Sim Starting
6681 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 282.4999999999915
6682 Ai: 5 Gen: 45
6683 Sim Starting
6684 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 368.6999999999914
6685 Ai: 6 Gen: 45
6686 Sim Starting
6687 Sim over Total pop = 0 Tick Complete = 13618
    Fitness = 1331.2999999999997
6688 Ai: 7 Gen: 45
6689 Sim Starting
6690 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 151.7500000000001
6691 Ai: 8 Gen: 45
6692 Sim Starting
6693 Sim over Total pop = 0 Tick Complete = 10197
    Fitness = 567.5
6694 Ai: 9 Gen: 45
6695 Sim Starting
6696 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 142.0000000000045
6697 Ai: 10 Gen: 45
6698 Sim Starting
6699 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 221.1
6700 Ai: 11 Gen: 45
6701 Sim Starting
```

```
6702 Sim over Total pop = 0 Tick Complete = 7469
    Fitness = 1229.9999999999866
6703 Ai: 12 Gen: 45
6704 Sim Starting
6705 Sim over Total pop = 0 Tick Complete = 781
    Fitness = -135.20000000000002
6706 Ai: 13 Gen: 45
6707 Sim Starting
6708 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 242.30000000000007
6709 Ai: 14 Gen: 45
6710 Sim Starting
6711 Sim over Total pop = 0 Tick Complete = 5258
    Fitness = 460.8000000000087
6712 Ai: 15 Gen: 45
6713 Sim Starting
6714 Sim over Total pop = 0 Tick Complete = 4257
    Fitness = 249.499999999987
6715 Ai: 16 Gen: 45
6716 Sim Starting
6717 Sim over Total pop = 0 Tick Complete = 3729
    Fitness = 500.7000000000095
6718 Ai: 17 Gen: 45
6719 Sim Starting
6720 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 314.5
6721 Ai: 18 Gen: 45
6722 Sim Starting
6723 Sim over Total pop = 0 Tick Complete = 4664
    Fitness = 544.599999999982
6724 Ai: 19 Gen: 45
6725 Sim Starting
6726 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 365.75
6727 Ai: 20 Gen: 45
6728 Sim Starting
6729 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 246.9999999999977
6730 Ai: 21 Gen: 45
6731 Sim Starting
6732 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
6733 Ai: 22 Gen: 45
6734 Sim Starting
```

```
6735 Sim over Total pop = 0 Tick Complete = 2552
    Fitness = 632.4999999999974
6736 Ai: 23 Gen: 45
6737 Sim Starting
6738 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 307.2499999999999
6739 Ai: 24 Gen: 45
6740 Sim Starting
6741 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 346.649999999999
6742 Ai: 25 Gen: 45
6743 Sim Starting
6744 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 181.9999999999966
6745 Ai: 26 Gen: 45
6746 Sim Starting
6747 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 336.749999999999
6748 Ai: 27 Gen: 45
6749 Sim Starting
6750 Sim over Total pop = 0 Tick Complete = 4455
    Fitness = 945.8500000000148
6751 Ai: 28 Gen: 45
6752 Sim Starting
6753 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 259.8000000000004
6754 Ai: 29 Gen: 45
6755 Sim Starting
6756 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
6757 Ai: 30 Gen: 45
6758 Sim Starting
6759 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 85.5000000000003
6760 Ai: 31 Gen: 45
6761 Sim Starting
6762 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 2.100000000000179
6763 Ai: 32 Gen: 45
6764 Sim Starting
6765 Sim over Total pop = 0 Tick Complete = 5324
    Fitness = 389.10000000000485
6766 Ai: 33 Gen: 45
6767 Sim Starting
```

```
6768 Sim over Total pop = 0 Tick Complete = 6897
    Fitness = 588.7999999999996
6769 Ai: 34 Gen: 45
6770 Sim Starting
6771 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1981.700000000079
6772 Ai: 35 Gen: 45
6773 Sim Starting
6774 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1210.6999999999998
6775 Ai: 36 Gen: 45
6776 Sim Starting
6777 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3253.8499999999344
6778 Ai: 37 Gen: 45
6779 Sim Starting
6780 Sim over Total pop = 0 Tick Complete = 12696
    Fitness = 1322.0999999999774
6781 Ai: 38 Gen: 45
6782 Sim Starting
6783 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2317.499999998263
6784 Ai: 39 Gen: 45
6785 Sim Starting
6786 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1305.2000000000135
6787 Ai: 40 Gen: 45
6788 Sim Starting
6789 Sim over Total pop = 0 Tick Complete = 17572
    Fitness = 1148.149999999994
6790 Ai: 41 Gen: 45
6791 Sim Starting
6792 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1260.799999999993
6793 Ai: 42 Gen: 45
6794 Sim Starting
6795 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
6796 Ai: 43 Gen: 45
6797 Sim Starting
6798 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6799 Ai: 44 Gen: 45
6800 Sim Starting
```

```
6801 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3342.499999999674
6802 Ai: 45 Gen: 45
6803 Sim Starting
6804 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 289.5
6805 Ai: 46 Gen: 45
6806 Sim Starting
6807 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6808 Ai: 47 Gen: 45
6809 Sim Starting
6810 Sim over Total pop = 0 Tick Complete = 7986
    Fitness = 639.949999999999
6811 Ai: 48 Gen: 45
6812 Sim Starting
6813 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3055.999999997117
6814 Ai: 49 Gen: 45
6815 Sim Starting
6816 Sim over Total pop = 0 Tick Complete = 9435
    Fitness = 723.8500000000148
6817 Ai: 0 Gen: 46
6818 Sim Starting
6819 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 481.9000000000015
6820 Ai: 1 Gen: 46
6821 Sim Starting
6822 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 313.699999999999
6823 Ai: 2 Gen: 46
6824 Sim Starting
6825 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 320.8999999999997
6826 Ai: 3 Gen: 46
6827 Sim Starting
6828 Sim over Total pop = 0 Tick Complete = 18865
    Fitness = 2023.749999999867
6829 Ai: 4 Gen: 46
6830 Sim Starting
6831 Sim over Total pop = 0 Tick Complete = 6875
    Fitness = 307.1499999999935
6832 Ai: 5 Gen: 46
6833 Sim Starting
```

```
6834 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 646.6999999999991
6835 Ai: 6 Gen: 46
6836 Sim Starting
6837 Sim over Total pop = 0 Tick Complete = 3795
    Fitness = 677.5000000000023
6838 Ai: 7 Gen: 46
6839 Sim Starting
6840 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 451.9999999999943
6841 Ai: 8 Gen: 46
6842 Sim Starting
6843 Sim over Total pop = 0 Tick Complete = 2530
    Fitness = 419.7999999999988
6844 Ai: 9 Gen: 46
6845 Sim Starting
6846 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 444.8500000000014
6847 Ai: 10 Gen: 46
6848 Sim Starting
6849 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 270.2
6850 Ai: 11 Gen: 46
6851 Sim Starting
6852 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 599.1
6853 Ai: 12 Gen: 46
6854 Sim Starting
6855 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 222.5500000000064
6856 Ai: 13 Gen: 46
6857 Sim Starting
6858 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 364.799999999992
6859 Ai: 14 Gen: 46
6860 Sim Starting
6861 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = -15.24999999999979
6862 Ai: 15 Gen: 46
6863 Sim Starting
6864 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 540.4000000000012
6865 Ai: 16 Gen: 46
6866 Sim Starting
```

```
6867 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1867.749999999994
6868 Ai: 17 Gen: 46
6869 Sim Starting
6870 Sim over Total pop = 0 Tick Complete = 1537
    Fitness = 377.45000000000005
6871 Ai: 18 Gen: 46
6872 Sim Starting
6873 Sim over Total pop = 0 Tick Complete = 6050
    Fitness = 408.05000000000075
6874 Ai: 19 Gen: 46
6875 Sim Starting
6876 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
6877 Ai: 20 Gen: 46
6878 Sim Starting
6879 Sim over Total pop = 0 Tick Complete = 957
    Fitness = -98.14999999999995
6880 Ai: 21 Gen: 46
6881 Sim Starting
6882 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 182.2499999999999
6883 Ai: 22 Gen: 46
6884 Sim Starting
6885 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 222.5499999999999
6886 Ai: 23 Gen: 46
6887 Sim Starting
6888 Sim over Total pop = 0 Tick Complete = 3520
    Fitness = 790.0500000000147
6889 Ai: 24 Gen: 46
6890 Sim Starting
6891 Sim over Total pop = 0 Tick Complete = 12067
    Fitness = 876.7000000000157
6892 Ai: 25 Gen: 46
6893 Sim Starting
6894 Sim over Total pop = 0 Tick Complete = 19404
    Fitness = 1771.9999999999077
6895 Ai: 26 Gen: 46
6896 Sim Starting
6897 Sim over Total pop = 0 Tick Complete = 5984
    Fitness = 781.2500000000106
6898 Ai: 27 Gen: 46
6899 Sim Starting
```

```
6900 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 133.7999999999997
6901 Ai: 28 Gen: 46
6902 Sim Starting
6903 Sim over Total pop = 0 Tick Complete = 6094
    Fitness = 925.8999999999928
6904 Ai: 29 Gen: 46
6905 Sim Starting
6906 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1873.599999998967
6907 Ai: 30 Gen: 46
6908 Sim Starting
6909 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2806.799999998437
6910 Ai: 31 Gen: 46
6911 Sim Starting
6912 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
6913 Ai: 32 Gen: 46
6914 Sim Starting
6915 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.199999999998
6916 Ai: 33 Gen: 46
6917 Sim Starting
6918 Sim over Total pop = 0 Tick Complete = 2538
    Fitness = 848.749999999939
6919 Ai: 34 Gen: 46
6920 Sim Starting
6921 Sim over Total pop = 0 Tick Complete = 10131
    Fitness = 1355.3000000000352
6922 Ai: 35 Gen: 46
6923 Sim Starting
6924 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3183.399999996954
6925 Ai: 36 Gen: 46
6926 Sim Starting
6927 Sim over Total pop = 0 Tick Complete = 624
    Fitness = 240.0
6928 Ai: 37 Gen: 46
6929 Sim Starting
6930 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6931 Ai: 38 Gen: 46
6932 Sim Starting
```

```
6933 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 646.1999999999989
6934 Ai: 39 Gen: 46
6935 Sim Starting
6936 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6937 Ai: 40 Gen: 46
6938 Sim Starting
6939 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6940 Ai: 41 Gen: 46
6941 Sim Starting
6942 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 374.4500000000013
6943 Ai: 42 Gen: 46
6944 Sim Starting
6945 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
6946 Ai: 43 Gen: 46
6947 Sim Starting
6948 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
6949 Ai: 44 Gen: 46
6950 Sim Starting
6951 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
6952 Ai: 45 Gen: 46
6953 Sim Starting
6954 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2477.099999999901
6955 Ai: 46 Gen: 46
6956 Sim Starting
6957 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1035.0
6958 Ai: 47 Gen: 46
6959 Sim Starting
6960 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1787.400000000012
6961 Ai: 48 Gen: 46
6962 Sim Starting
6963 Sim over Total pop = 0 Tick Complete = 8351
    Fitness = 1327.949999999948
6964 Ai: 0 Gen: 47
6965 Sim Starting
```

```
6966 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 343.90000000000134
6967 Ai: 1 Gen: 47
6968 Sim Starting
6969 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 552.6999999999967
6970 Ai: 2 Gen: 47
6971 Sim Starting
6972 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 344.5
6973 Ai: 3 Gen: 47
6974 Sim Starting
6975 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 517.75
6976 Ai: 4 Gen: 47
6977 Sim Starting
6978 Sim over Total pop = 0 Tick Complete = 3806
    Fitness = 678.2999999999911
6979 Ai: 5 Gen: 47
6980 Sim Starting
6981 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 223.5
6982 Ai: 6 Gen: 47
6983 Sim Starting
6984 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 293.2499999999983
6985 Ai: 7 Gen: 47
6986 Sim Starting
6987 Sim over Total pop = 0 Tick Complete = 5500
    Fitness = 655.6500000000018
6988 Ai: 8 Gen: 47
6989 Sim Starting
6990 Sim over Total pop = 0 Tick Complete = 11385
    Fitness = 1508.7000000000385
6991 Ai: 9 Gen: 47
6992 Sim Starting
6993 Sim over Total pop = 0 Tick Complete = 5445
    Fitness = 1169.9499999999962
6994 Ai: 10 Gen: 47
6995 Sim Starting
6996 Sim over Total pop = 0 Tick Complete = 8690
    Fitness = 1482.85000000000358
6997 Ai: 11 Gen: 47
6998 Sim Starting
```

```
6999 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
7000 Ai: 12 Gen: 47
7001 Sim Starting
7002 Sim over Total pop = 0 Tick Complete = 6094
    Fitness = 1385.6000000000117
7003 Ai: 13 Gen: 47
7004 Sim Starting
7005 Sim over Total pop = 0 Tick Complete = 19393
    Fitness = 1699.799999999921
7006 Ai: 14 Gen: 47
7007 Sim Starting
7008 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 141.8999999999998
7009 Ai: 15 Gen: 47
7010 Sim Starting
7011 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 509.0
7012 Ai: 16 Gen: 47
7013 Sim Starting
7014 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 398.900000000001
7015 Ai: 17 Gen: 47
7016 Sim Starting
7017 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7018 Ai: 18 Gen: 47
7019 Sim Starting
7020 Sim over Total pop = 0 Tick Complete = 13145
    Fitness = 1245.999999999854
7021 Ai: 19 Gen: 47
7022 Sim Starting
7023 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -158.75
7024 Ai: 20 Gen: 47
7025 Sim Starting
7026 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 199.3499999999962
7027 Ai: 21 Gen: 47
7028 Sim Starting
7029 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = -12.44999999999974
7030 Ai: 22 Gen: 47
7031 Sim Starting
```

```
7032 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 985.4000000000212
7033 Ai: 23 Gen: 47
7034 Sim Starting
7035 Sim over Total pop = 0 Tick Complete = 13156
    Fitness = 1145.4500000000066
7036 Ai: 24 Gen: 47
7037 Sim Starting
7038 Sim over Total pop = 0 Tick Complete = 12650
    Fitness = 500.5000000000773
7039 Ai: 25 Gen: 47
7040 Sim Starting
7041 Sim over Total pop = 0 Tick Complete = 3355
    Fitness = 427.2500000000001
7042 Ai: 26 Gen: 47
7043 Sim Starting
7044 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = -143.1000000000008
7045 Ai: 27 Gen: 47
7046 Sim Starting
7047 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -149.5
7048 Ai: 28 Gen: 47
7049 Sim Starting
7050 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 160.9999999999994
7051 Ai: 29 Gen: 47
7052 Sim Starting
7053 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 4087.699999995624
7054 Ai: 30 Gen: 47
7055 Sim Starting
7056 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2833.60000000141
7057 Ai: 31 Gen: 47
7058 Sim Starting
7059 Sim over Total pop = 0 Tick Complete = 13986
    Fitness = 532.4000000000085
7060 Ai: 32 Gen: 47
7061 Sim Starting
7062 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1878.399999998969
7063 Ai: 33 Gen: 47
7064 Sim Starting
```

```
7065 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
7066 Ai: 34 Gen: 47
7067 Sim Starting
7068 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1215.4
7069 Ai: 35 Gen: 47
7070 Sim Starting
7071 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
7072 Ai: 36 Gen: 47
7073 Sim Starting
7074 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7075 Ai: 37 Gen: 47
7076 Sim Starting
7077 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7078 Ai: 38 Gen: 47
7079 Sim Starting
7080 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2997.199999999718
7081 Ai: 39 Gen: 47
7082 Sim Starting
7083 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 2953.6999999999384
7084 Ai: 40 Gen: 47
7085 Sim Starting
7086 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2518.199999999803
7087 Ai: 41 Gen: 47
7088 Sim Starting
7089 Sim over Total pop = 0 Tick Complete = 574
    Fitness = 152.0
7090 Ai: 42 Gen: 47
7091 Sim Starting
7092 Sim over Total pop = 0 Tick Complete = 8173
    Fitness = 1358.8500000000208
7093 Ai: 43 Gen: 47
7094 Sim Starting
7095 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 135.00000000000009
7096 Ai: 44 Gen: 47
7097 Sim Starting
```

```
7098 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
7099 Ai: 45 Gen: 47
7100 Sim Starting
7101 Sim over Total pop = 0 Tick Complete = 3421
    Fitness = 418.199999999981
7102 Ai: 46 Gen: 47
7103 Sim Starting
7104 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
7105 Ai: 47 Gen: 47
7106 Sim Starting
7107 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2191.599999998485
7108 Ai: 48 Gen: 47
7109 Sim Starting
7110 Sim over Total pop = 0 Tick Complete = 19467
    Fitness = 1972.9500000001174
7111 Ai: 49 Gen: 47
7112 Sim Starting
7113 Sim over Total pop = 0 Tick Complete = 18205
    Fitness = 2563.400000000025
7114 Ai: 0 Gen: 48
7115 Sim Starting
7116 Sim over Total pop = 0 Tick Complete = 5159
    Fitness = 517.75
7117 Ai: 1 Gen: 48
7118 Sim Starting
7119 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 234.8999999999998
7120 Ai: 2 Gen: 48
7121 Sim Starting
7122 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 195.5
7123 Ai: 3 Gen: 48
7124 Sim Starting
7125 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 338.1000000000014
7126 Ai: 4 Gen: 48
7127 Sim Starting
7128 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 411.8500000000014
7129 Ai: 5 Gen: 48
7130 Sim Starting
```

```
7131 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 193.5
7132 Ai: 6 Gen: 48
7133 Sim Starting
7134 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 304.70000000000005
7135 Ai: 7 Gen: 48
7136 Sim Starting
7137 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
7138 Ai: 8 Gen: 48
7139 Sim Starting
7140 Sim over Total pop = 0 Tick Complete = 781
    Fitness = -166.90000000000012
7141 Ai: 9 Gen: 48
7142 Sim Starting
7143 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -123.4
7144 Ai: 10 Gen: 48
7145 Sim Starting
7146 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = -43.30000000000026
7147 Ai: 11 Gen: 48
7148 Sim Starting
7149 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -195.5
7150 Ai: 12 Gen: 48
7151 Sim Starting
7152 Sim over Total pop = 0 Tick Complete = 5082
    Fitness = 753.1500000000121
7153 Ai: 13 Gen: 48
7154 Sim Starting
7155 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 850.699999999998
7156 Ai: 14 Gen: 48
7157 Sim Starting
7158 Sim over Total pop = 0 Tick Complete = 855
    Fitness = 375.849999999999
7159 Ai: 15 Gen: 48
7160 Sim Starting
7161 Sim over Total pop = 0 Tick Complete = 6325
    Fitness = 769.099999999842
7162 Ai: 16 Gen: 48
7163 Sim Starting
```

```
7164 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = -52.950000000000002
7165 Ai: 17 Gen: 48
7166 Sim Starting
7167 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -166.40000000000003
7168 Ai: 18 Gen: 48
7169 Sim Starting
7170 Sim over Total pop = 0 Tick Complete = 3190
    Fitness = 321.6
7171 Ai: 19 Gen: 48
7172 Sim Starting
7173 Sim over Total pop = 0 Tick Complete = 5753
    Fitness = 379.6000000000014
7174 Ai: 20 Gen: 48
7175 Sim Starting
7176 Sim over Total pop = 0 Tick Complete = 2805
    Fitness = 845.3499999999991
7177 Ai: 21 Gen: 48
7178 Sim Starting
7179 Sim over Total pop = 0 Tick Complete = 8305
    Fitness = 1046.799999999988
7180 Ai: 22 Gen: 48
7181 Sim Starting
7182 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 346.4499999999993
7183 Ai: 23 Gen: 48
7184 Sim Starting
7185 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 139.0
7186 Ai: 24 Gen: 48
7187 Sim Starting
7188 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 144.5999999999997
7189 Ai: 25 Gen: 48
7190 Sim Starting
7191 Sim over Total pop = 0 Tick Complete = 5412
    Fitness = 645.7999999999998
7192 Ai: 26 Gen: 48
7193 Sim Starting
7194 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
7195 Ai: 27 Gen: 48
7196 Sim Starting
```

```
7197 Sim over Total pop = 0 Tick Complete = 4576
    Fitness = 1091.6000000000126
7198 Ai: 28 Gen: 48
7199 Sim Starting
7200 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 367.9000000000007
7201 Ai: 29 Gen: 48
7202 Sim Starting
7203 Sim over Total pop = 0 Tick Complete = 6061
    Fitness = 690.600000000012
7204 Ai: 30 Gen: 48
7205 Sim Starting
7206 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3373.899999999672
7207 Ai: 31 Gen: 48
7208 Sim Starting
7209 Sim over Total pop = 0 Tick Complete = 12361
    Fitness = 1710.850000000077
7210 Ai: 32 Gen: 48
7211 Sim Starting
7212 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1605.399999999941
7213 Ai: 33 Gen: 48
7214 Sim Starting
7215 Sim over Total pop = 0 Tick Complete = 7367
    Fitness = 526.100000000008
7216 Ai: 34 Gen: 48
7217 Sim Starting
7218 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3603.5999999996397
7219 Ai: 35 Gen: 48
7220 Sim Starting
7221 Sim over Total pop = 0 Tick Complete = 712
    Fitness = 146.0
7222 Ai: 36 Gen: 48
7223 Sim Starting
7224 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 435.0
7225 Ai: 37 Gen: 48
7226 Sim Starting
7227 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 216.5
7228 Ai: 38 Gen: 48
7229 Sim Starting
```

```
7230 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2192.3999999999337
7231 Ai: 39 Gen: 48
7232 Sim Starting
7233 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1683.199999999999
7234 Ai: 40 Gen: 48
7235 Sim Starting
7236 Sim over Total pop = 0 Tick Complete = 8255
    Fitness = 1456.3000000000266
7237 Ai: 41 Gen: 48
7238 Sim Starting
7239 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2250.050000000081
7240 Ai: 42 Gen: 48
7241 Sim Starting
7242 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1722.5
7243 Ai: 43 Gen: 48
7244 Sim Starting
7245 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
7246 Ai: 44 Gen: 48
7247 Sim Starting
7248 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 150.5
7249 Ai: 45 Gen: 48
7250 Sim Starting
7251 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7252 Ai: 46 Gen: 48
7253 Sim Starting
7254 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 133.0999999999997
7255 Ai: 47 Gen: 48
7256 Sim Starting
7257 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7258 Ai: 48 Gen: 48
7259 Sim Starting
7260 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7261 Ai: 49 Gen: 48
7262 Sim Starting
```

```
7263 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7264 Ai: 0 Gen: 49
7265 Sim Starting
7266 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 571.5499999999997
7267 Ai: 1 Gen: 49
7268 Sim Starting
7269 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 351.5
7270 Ai: 2 Gen: 49
7271 Sim Starting
7272 Sim over Total pop = 0 Tick Complete = 2541
    Fitness = 66.65000000000006
7273 Ai: 3 Gen: 49
7274 Sim Starting
7275 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
7276 Ai: 4 Gen: 49
7277 Sim Starting
7278 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 277.9
7279 Ai: 5 Gen: 49
7280 Sim Starting
7281 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 385.6000000000116
7282 Ai: 6 Gen: 49
7283 Sim Starting
7284 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 269.5999999999998
7285 Ai: 7 Gen: 49
7286 Sim Starting
7287 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 455.4500000000007
7288 Ai: 8 Gen: 49
7289 Sim Starting
7290 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 520.0499999999982
7291 Ai: 9 Gen: 49
7292 Sim Starting
7293 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -163.3999999999998
7294 Ai: 10 Gen: 49
7295 Sim Starting
```

```
7296 Sim over Total pop = 0 Tick Complete = 15378
    Fitness = 1091.4499999999875
7297 Ai: 11 Gen: 49
7298 Sim Starting
7299 Sim over Total pop = 0 Tick Complete = 13970
    Fitness = 1177.149999999998
7300 Ai: 12 Gen: 49
7301 Sim Starting
7302 Sim over Total pop = 0 Tick Complete = 4345
    Fitness = 260.6500000000005
7303 Ai: 13 Gen: 49
7304 Sim Starting
7305 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -152.5
7306 Ai: 14 Gen: 49
7307 Sim Starting
7308 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 162.45000000000016
7309 Ai: 15 Gen: 49
7310 Sim Starting
7311 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -88.15
7312 Ai: 16 Gen: 49
7313 Sim Starting
7314 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 621.2999999999971
7315 Ai: 17 Gen: 49
7316 Sim Starting
7317 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1212.3999999999996
7318 Ai: 18 Gen: 49
7319 Sim Starting
7320 Sim over Total pop = 0 Tick Complete = 9809
    Fitness = 681.8499999999877
7321 Ai: 19 Gen: 49
7322 Sim Starting
7323 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 153.750000000000006
7324 Ai: 20 Gen: 49
7325 Sim Starting
7326 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 471.0000000000002
7327 Ai: 21 Gen: 49
7328 Sim Starting
```

```
7329 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 340.0
7330 Ai: 22 Gen: 49
7331 Sim Starting
7332 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
7333 Ai: 23 Gen: 49
7334 Sim Starting
7335 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7336 Ai: 24 Gen: 49
7337 Sim Starting
7338 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7339 Ai: 25 Gen: 49
7340 Sim Starting
7341 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 399.65
7342 Ai: 26 Gen: 49
7343 Sim Starting
7344 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 195.5500000000001
7345 Ai: 27 Gen: 49
7346 Sim Starting
7347 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 140.04999999999978
7348 Ai: 28 Gen: 49
7349 Sim Starting
7350 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 468.0499999999992
7351 Ai: 29 Gen: 49
7352 Sim Starting
7353 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7354 Ai: 30 Gen: 49
7355 Sim Starting
7356 Sim over Total pop = 0 Tick Complete = 11693
    Fitness = 736.500000000018
7357 Ai: 31 Gen: 49
7358 Sim Starting
7359 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 174.25
7360 Ai: 32 Gen: 49
7361 Sim Starting
```

```
7362 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7363 Ai: 33 Gen: 49
7364 Sim Starting
7365 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 197.2000000000005
7366 Ai: 34 Gen: 49
7367 Sim Starting
7368 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7369 Ai: 35 Gen: 49
7370 Sim Starting
7371 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 212.9500000000067
7372 Ai: 36 Gen: 49
7373 Sim Starting
7374 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1300.6500000000128
7375 Ai: 37 Gen: 49
7376 Sim Starting
7377 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2572.09999999793
7378 Ai: 38 Gen: 49
7379 Sim Starting
7380 Sim over Total pop = 0 Tick Complete = 7617
    Fitness = 862.75
7381 Ai: 39 Gen: 49
7382 Sim Starting
7383 Sim over Total pop = 0 Tick Complete = 18117
    Fitness = 2468.99999999969
7384 Ai: 40 Gen: 49
7385 Sim Starting
7386 Sim over Total pop = 0 Tick Complete = 10516
    Fitness = 1336.299999999724
7387 Ai: 41 Gen: 49
7388 Sim Starting
7389 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7390 Ai: 42 Gen: 49
7391 Sim Starting
7392 Sim over Total pop = 0 Tick Complete = 18359
    Fitness = 2392.1500000001747
7393 Ai: 43 Gen: 49
7394 Sim Starting
```

```
7395 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1715.7999999999247
7396 Ai: 44 Gen: 49
7397 Sim Starting
7398 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 322.5
7399 Ai: 45 Gen: 49
7400 Sim Starting
7401 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7402 Ai: 46 Gen: 49
7403 Sim Starting
7404 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2280.899999999836
7405 Ai: 47 Gen: 49
7406 Sim Starting
7407 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2312.099999999825
7408 Ai: 48 Gen: 49
7409 Sim Starting
7410 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1551.7999999999383
7411 Ai: 49 Gen: 49
7412 Sim Starting
7413 Sim over Total pop = 0 Tick Complete = 13048
    Fitness = 1598.9499999999564
7414 Ai: 0 Gen: 50
7415 Sim Starting
7416 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 522.1499999999997
7417 Ai: 1 Gen: 50
7418 Sim Starting
7419 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 245.1000000000025
7420 Ai: 2 Gen: 50
7421 Sim Starting
7422 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 602.5000000000049
7423 Ai: 3 Gen: 50
7424 Sim Starting
7425 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 294.4500000000003
7426 Ai: 4 Gen: 50
7427 Sim Starting
```

```
7428 Sim over Total pop = 0 Tick Complete = 4334
    Fitness = 478.0999999999994
7429 Ai: 5 Gen: 50
7430 Sim Starting
7431 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 604.9499999999981
7432 Ai: 6 Gen: 50
7433 Sim Starting
7434 Sim over Total pop = 0 Tick Complete = 3861
    Fitness = 627.2499999999936
7435 Ai: 7 Gen: 50
7436 Sim Starting
7437 Sim over Total pop = 0 Tick Complete = 7304
    Fitness = 769.8499999999955
7438 Ai: 8 Gen: 50
7439 Sim Starting
7440 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 187.2499999999999
7441 Ai: 9 Gen: 50
7442 Sim Starting
7443 Sim over Total pop = 0 Tick Complete = 10329
    Fitness = 1001.1000000000271
7444 Ai: 10 Gen: 50
7445 Sim Starting
7446 Sim over Total pop = 0 Tick Complete = 8525
    Fitness = 374.7
7447 Ai: 11 Gen: 50
7448 Sim Starting
7449 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 920.7000000000229
7450 Ai: 12 Gen: 50
7451 Sim Starting
7452 Sim over Total pop = 0 Tick Complete = 2032
    Fitness = 743.2499999999966
7453 Ai: 13 Gen: 50
7454 Sim Starting
7455 Sim over Total pop = 0 Tick Complete = 9306
    Fitness = 910.100000000023
7456 Ai: 14 Gen: 50
7457 Sim Starting
7458 Sim over Total pop = 0 Tick Complete = 6798
    Fitness = 1881.599999999952
7459 Ai: 15 Gen: 50
7460 Sim Starting
```

```
7461 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 341.4500000000001
7462 Ai: 16 Gen: 50
7463 Sim Starting
7464 Sim over Total pop = 0 Tick Complete = 12485
    Fitness = 1274.3000000000156
7465 Ai: 17 Gen: 50
7466 Sim Starting
7467 Sim over Total pop = 0 Tick Complete = 5863
    Fitness = 686.999999999915
7468 Ai: 18 Gen: 50
7469 Sim Starting
7470 Sim over Total pop = 0 Tick Complete = 12397
    Fitness = 1774.1000000000254
7471 Ai: 19 Gen: 50
7472 Sim Starting
7473 Sim over Total pop = 0 Tick Complete = 3212
    Fitness = 892.499999999932
7474 Ai: 20 Gen: 50
7475 Sim Starting
7476 Sim over Total pop = 0 Tick Complete = 7799
    Fitness = 1212.3500000000295
7477 Ai: 21 Gen: 50
7478 Sim Starting
7479 Sim over Total pop = 0 Tick Complete = 3201
    Fitness = 358.6000000000002
7480 Ai: 22 Gen: 50
7481 Sim Starting
7482 Sim over Total pop = 0 Tick Complete = 3586
    Fitness = 428.7500000000244
7483 Ai: 23 Gen: 50
7484 Sim Starting
7485 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 695.400000000016
7486 Ai: 24 Gen: 50
7487 Sim Starting
7488 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 149.7999999999978
7489 Ai: 25 Gen: 50
7490 Sim Starting
7491 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 192.90000000000015
7492 Ai: 26 Gen: 50
7493 Sim Starting
```

```
7494 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7495 Ai: 27 Gen: 50
7496 Sim Starting
7497 Sim over Total pop = 0 Tick Complete = 6270
    Fitness = 609.8500000000008
7498 Ai: 28 Gen: 50
7499 Sim Starting
7500 Sim over Total pop = 0 Tick Complete = 2233
    Fitness = 51.750000000000256
7501 Ai: 29 Gen: 50
7502 Sim Starting
7503 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 680.3500000000025
7504 Ai: 30 Gen: 50
7505 Sim Starting
7506 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3931.69999999582
7507 Ai: 31 Gen: 50
7508 Sim Starting
7509 Sim over Total pop = 0 Tick Complete = 13934
    Fitness = 1158.800000000404
7510 Ai: 32 Gen: 50
7511 Sim Starting
7512 Sim over Total pop = 0 Tick Complete = 5995
    Fitness = 814.699999999846
7513 Ai: 33 Gen: 50
7514 Sim Starting
7515 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 171.05
7516 Ai: 34 Gen: 50
7517 Sim Starting
7518 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1035.0
7519 Ai: 35 Gen: 50
7520 Sim Starting
7521 Sim over Total pop = 0 Tick Complete = 18246
    Fitness = 2078.9500000001276
7522 Ai: 36 Gen: 50
7523 Sim Starting
7524 Sim over Total pop = 0 Tick Complete = 17072
    Fitness = 2117.6499999999996
7525 Ai: 37 Gen: 50
7526 Sim Starting
```

```
7527 Sim over Total pop = 0 Tick Complete = 3157
    Fitness = 482.50000000000387
7528 Ai: 38 Gen: 50
7529 Sim Starting
7530 Sim over Total pop = 0 Tick Complete = 12045
    Fitness = 765.5000000000193
7531 Ai: 39 Gen: 50
7532 Sim Starting
7533 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2600.9000000000756
7534 Ai: 40 Gen: 50
7535 Sim Starting
7536 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1203.3000000000002
7537 Ai: 41 Gen: 50
7538 Sim Starting
7539 Sim over Total pop = 0 Tick Complete = 13909
    Fitness = 1830.4500000000903
7540 Ai: 42 Gen: 50
7541 Sim Starting
7542 Sim over Total pop = 0 Tick Complete = 18051
    Fitness = 1162.6999999999962
7543 Ai: 43 Gen: 50
7544 Sim Starting
7545 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7546 Ai: 44 Gen: 50
7547 Sim Starting
7548 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7549 Ai: 45 Gen: 50
7550 Sim Starting
7551 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7552 Ai: 46 Gen: 50
7553 Sim Starting
7554 Sim over Total pop = 0 Tick Complete = 11385
    Fitness = 719.7000000000173
7555 Ai: 47 Gen: 50
7556 Sim Starting
7557 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1035.5
7558 Ai: 48 Gen: 50
7559 Sim Starting
```

```
7560 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
7561 Ai: 49 Gen: 50
7562 Sim Starting
7563 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2334.35000000016
7564 Ai: 50 Gen: 50
7565 Sim Starting
7566 Sim over Total pop = 0 Tick Complete = 18081
    Fitness = 2812.149999997877
7567 Ai: 0 Gen: 51
7568 Sim Starting
7569 Sim over Total pop = 0 Tick Complete = 8239
    Fitness = 1013.400000000078
7570 Ai: 1 Gen: 51
7571 Sim Starting
7572 Sim over Total pop = 0 Tick Complete = 4598
    Fitness = 764.7
7573 Ai: 2 Gen: 51
7574 Sim Starting
7575 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 648.250000000036
7576 Ai: 3 Gen: 51
7577 Sim Starting
7578 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -86.000000000006
7579 Ai: 4 Gen: 51
7580 Sim Starting
7581 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 222.600000000002
7582 Ai: 5 Gen: 51
7583 Sim Starting
7584 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
7585 Ai: 6 Gen: 51
7586 Sim Starting
7587 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 290.15
7588 Ai: 7 Gen: 51
7589 Sim Starting
7590 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
7591 Ai: 8 Gen: 51
7592 Sim Starting
```

```
7593 Sim over Total pop = 0 Tick Complete = 19943
    Fitness = 2490.9999999999536
7594 Ai: 9 Gen: 51
7595 Sim Starting
7596 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1316.399999999977
7597 Ai: 10 Gen: 51
7598 Sim Starting
7599 Sim over Total pop = 0 Tick Complete = 2120
    Fitness = 585.099999999999
7600 Ai: 11 Gen: 51
7601 Sim Starting
7602 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 196.0
7603 Ai: 12 Gen: 51
7604 Sim Starting
7605 Sim over Total pop = 0 Tick Complete = 9867
    Fitness = 636.2000000000141
7606 Ai: 13 Gen: 51
7607 Sim Starting
7608 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = -71.69999999999999
7609 Ai: 14 Gen: 51
7610 Sim Starting
7611 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 423.7500000000011
7612 Ai: 15 Gen: 51
7613 Sim Starting
7614 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 196.95
7615 Ai: 16 Gen: 51
7616 Sim Starting
7617 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 455.35000000000133
7618 Ai: 17 Gen: 51
7619 Sim Starting
7620 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 155.99999999999991
7621 Ai: 18 Gen: 51
7622 Sim Starting
7623 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 625.1500000000033
7624 Ai: 19 Gen: 51
7625 Sim Starting
```

```
7626 Sim over Total pop = 0 Tick Complete = 12045
    Fitness = 801.6999999999811
7627 Ai: 20 Gen: 51
7628 Sim Starting
7629 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 566.2500000000052
7630 Ai: 21 Gen: 51
7631 Sim Starting
7632 Sim over Total pop = 0 Tick Complete = 14817
    Fitness = 1084.900000000012
7633 Ai: 22 Gen: 51
7634 Sim Starting
7635 Sim over Total pop = 0 Tick Complete = 4928
    Fitness = 81.2999999999887
7636 Ai: 23 Gen: 51
7637 Sim Starting
7638 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 899.799999999962
7639 Ai: 24 Gen: 51
7640 Sim Starting
7641 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 273.4999999999983
7642 Ai: 25 Gen: 51
7643 Sim Starting
7644 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 334.6999999999857
7645 Ai: 26 Gen: 51
7646 Sim Starting
7647 Sim over Total pop = 0 Tick Complete = 15840
    Fitness = 917.8500000000125
7648 Ai: 27 Gen: 51
7649 Sim Starting
7650 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2096.499999998654
7651 Ai: 28 Gen: 51
7652 Sim Starting
7653 Sim over Total pop = 0 Tick Complete = 2747
    Fitness = 52.3999999999965
7654 Ai: 29 Gen: 51
7655 Sim Starting
7656 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2688.99999999977
7657 Ai: 30 Gen: 51
7658 Sim Starting
```

```
7659 Sim over Total pop = 0 Tick Complete = 12922
    Fitness = 1164.5
7660 Ai: 31 Gen: 51
7661 Sim Starting
7662 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
7663 Ai: 32 Gen: 51
7664 Sim Starting
7665 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1442.1999999999657
7666 Ai: 33 Gen: 51
7667 Sim Starting
7668 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2221.199999999954
7669 Ai: 34 Gen: 51
7670 Sim Starting
7671 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
7672 Ai: 35 Gen: 51
7673 Sim Starting
7674 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
7675 Ai: 36 Gen: 51
7676 Sim Starting
7677 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7678 Ai: 37 Gen: 51
7679 Sim Starting
7680 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7681 Ai: 38 Gen: 51
7682 Sim Starting
7683 Sim over Total pop = 0 Tick Complete = 14795
    Fitness = 2005.0000000000343
7684 Ai: 39 Gen: 51
7685 Sim Starting
7686 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7687 Ai: 40 Gen: 51
7688 Sim Starting
7689 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1301.1000000000129
7690 Ai: 41 Gen: 51
7691 Sim Starting
```

```
7692 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
7693 Ai: 42 Gen: 51
7694 Sim Starting
7695 Sim over Total pop = 0 Tick Complete = 8239
    Fitness = 639.400000000041
7696 Ai: 43 Gen: 51
7697 Sim Starting
7698 Sim over Total pop = 0 Tick Complete = 2849
    Fitness = 580.90000000004
7699 Ai: 44 Gen: 51
7700 Sim Starting
7701 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7702 Ai: 45 Gen: 51
7703 Sim Starting
7704 Sim over Total pop = 0 Tick Complete = 11341
    Fitness = 1406.949999999612
7705 Ai: 46 Gen: 51
7706 Sim Starting
7707 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7708 Ai: 47 Gen: 51
7709 Sim Starting
7710 Sim over Total pop = 0 Tick Complete = 17193
    Fitness = 1371.500000000032
7711 Ai: 48 Gen: 51
7712 Sim Starting
7713 Sim over Total pop = 0 Tick Complete = 17347
    Fitness = 1575.999999999472
7714 Ai: 0 Gen: 52
7715 Sim Starting
7716 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 29.00000000000064
7717 Ai: 1 Gen: 52
7718 Sim Starting
7719 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 366.0
7720 Ai: 2 Gen: 52
7721 Sim Starting
7722 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 352.849999999992
7723 Ai: 3 Gen: 52
7724 Sim Starting
```

```
7725 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -164.65
7726 Ai: 4 Gen: 52
7727 Sim Starting
7728 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 390.75
7729 Ai: 5 Gen: 52
7730 Sim Starting
7731 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 94.79999999999995
7732 Ai: 6 Gen: 52
7733 Sim Starting
7734 Sim over Total pop = 0 Tick Complete = 7557
    Fitness = 1053.05000000000188
7735 Ai: 7 Gen: 52
7736 Sim Starting
7737 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
7738 Ai: 8 Gen: 52
7739 Sim Starting
7740 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
7741 Ai: 9 Gen: 52
7742 Sim Starting
7743 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 382.9999999999988
7744 Ai: 10 Gen: 52
7745 Sim Starting
7746 Sim over Total pop = 0 Tick Complete = 3773
    Fitness = 223.0
7747 Ai: 11 Gen: 52
7748 Sim Starting
7749 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 679.649999999999
7750 Ai: 12 Gen: 52
7751 Sim Starting
7752 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 19.09999999999998
7753 Ai: 13 Gen: 52
7754 Sim Starting
7755 Sim over Total pop = 0 Tick Complete = 9163
    Fitness = 700.80000000000153
7756 Ai: 14 Gen: 52
7757 Sim Starting
```

```
7758 Sim over Total pop = 0 Tick Complete = 902
    Fitness = -171.950000000000002
7759 Ai: 15 Gen: 52
7760 Sim Starting
7761 Sim over Total pop = 0 Tick Complete = 7293
    Fitness = 591.4999999999976
7762 Ai: 16 Gen: 52
7763 Sim Starting
7764 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 191.0
7765 Ai: 17 Gen: 52
7766 Sim Starting
7767 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 186.15000000000023
7768 Ai: 18 Gen: 52
7769 Sim Starting
7770 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 45.74999999999986
7771 Ai: 19 Gen: 52
7772 Sim Starting
7773 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 137.0
7774 Ai: 20 Gen: 52
7775 Sim Starting
7776 Sim over Total pop = 0 Tick Complete = 3146
    Fitness = 510.5500000000011
7777 Ai: 21 Gen: 52
7778 Sim Starting
7779 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7780 Ai: 22 Gen: 52
7781 Sim Starting
7782 Sim over Total pop = 0 Tick Complete = 5577
    Fitness = 862.3
7783 Ai: 23 Gen: 52
7784 Sim Starting
7785 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 126.5000000000006
7786 Ai: 24 Gen: 52
7787 Sim Starting
7788 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 180.80000000000035
7789 Ai: 25 Gen: 52
7790 Sim Starting
```

```
7791 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 143.54999999999944
7792 Ai: 26 Gen: 52
7793 Sim Starting
7794 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 310.0
7795 Ai: 27 Gen: 52
7796 Sim Starting
7797 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 599.199999999999
7798 Ai: 28 Gen: 52
7799 Sim Starting
7800 Sim over Total pop = 0 Tick Complete = 8613
    Fitness = 704.0500000000166
7801 Ai: 29 Gen: 52
7802 Sim Starting
7803 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 275.5000000000057
7804 Ai: 30 Gen: 52
7805 Sim Starting
7806 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 132.0
7807 Ai: 31 Gen: 52
7808 Sim Starting
7809 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 35.9500000000004
7810 Ai: 32 Gen: 52
7811 Sim Starting
7812 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3342.399999996754
7813 Ai: 33 Gen: 52
7814 Sim Starting
7815 Sim over Total pop = 0 Tick Complete = 13934
    Fitness = 1499.949999999512
7816 Ai: 34 Gen: 52
7817 Sim Starting
7818 Sim over Total pop = 0 Tick Complete = 9284
    Fitness = 1280.6000000000088
7819 Ai: 35 Gen: 52
7820 Sim Starting
7821 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1640.899999999897
7822 Ai: 36 Gen: 52
7823 Sim Starting
```

```
7824 Sim over Total pop = 0 Tick Complete = 8962
    Fitness = 1605.5000000000396
7825 Ai: 37 Gen: 52
7826 Sim Starting
7827 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7828 Ai: 38 Gen: 52
7829 Sim Starting
7830 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2968.750000000252
7831 Ai: 39 Gen: 52
7832 Sim Starting
7833 Sim over Total pop = 0 Tick Complete = 4309
    Fitness = 300.0
7834 Ai: 40 Gen: 52
7835 Sim Starting
7836 Sim over Total pop = 0 Tick Complete = 2310
    Fitness = 293.6499999999995
7837 Ai: 41 Gen: 52
7838 Sim Starting
7839 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7840 Ai: 42 Gen: 52
7841 Sim Starting
7842 Sim over Total pop = 0 Tick Complete = 6193
    Fitness = 557.600000000014
7843 Ai: 43 Gen: 52
7844 Sim Starting
7845 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.9
7846 Ai: 44 Gen: 52
7847 Sim Starting
7848 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1468.5999999999617
7849 Ai: 45 Gen: 52
7850 Sim Starting
7851 Sim over Total pop = 0 Tick Complete = 19797
    Fitness = 1896.600000000017
7852 Ai: 46 Gen: 52
7853 Sim Starting
7854 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1491.3499999999374
7855 Ai: 47 Gen: 52
7856 Sim Starting
```

```
7857 Sim over Total pop = 0 Tick Complete = 6762
    Fitness = 1084.6500000000215
7858 Ai: 48 Gen: 52
7859 Sim Starting
7860 Sim over Total pop = 0 Tick Complete = 16720
    Fitness = 1437.0000000000343
7861 Ai: 49 Gen: 52
7862 Sim Starting
7863 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2930.050000000212
7864 Ai: 0 Gen: 53
7865 Sim Starting
7866 Sim over Total pop = 0 Tick Complete = 591
    Fitness = -142.5
7867 Ai: 1 Gen: 53
7868 Sim Starting
7869 Sim over Total pop = 0 Tick Complete = 935
    Fitness = -185.0
7870 Ai: 2 Gen: 53
7871 Sim Starting
7872 Sim over Total pop = 0 Tick Complete = 5929
    Fitness = 211.1499999999853
7873 Ai: 3 Gen: 53
7874 Sim Starting
7875 Sim over Total pop = 0 Tick Complete = 2805
    Fitness = 307.6499999999884
7876 Ai: 4 Gen: 53
7877 Sim Starting
7878 Sim over Total pop = 0 Tick Complete = 968
    Fitness = -58.0500000000004
7879 Ai: 5 Gen: 53
7880 Sim Starting
7881 Sim over Total pop = 0 Tick Complete = 4983
    Fitness = 844.200000000021
7882 Ai: 6 Gen: 53
7883 Sim Starting
7884 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -168.0000000000003
7885 Ai: 7 Gen: 53
7886 Sim Starting
7887 Sim over Total pop = 0 Tick Complete = 9823
    Fitness = 1247.0000000000114
7888 Ai: 8 Gen: 53
7889 Sim Starting
```

```
7890 Sim over Total pop = 0 Tick Complete = 924
    Fitness = -130.14999999999986
7891 Ai: 9 Gen: 53
7892 Sim Starting
7893 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -133.5
7894 Ai: 10 Gen: 53
7895 Sim Starting
7896 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 90.35
7897 Ai: 11 Gen: 53
7898 Sim Starting
7899 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 146.30000000000007
7900 Ai: 12 Gen: 53
7901 Sim Starting
7902 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 572.5000000000001
7903 Ai: 13 Gen: 53
7904 Sim Starting
7905 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 256.1999999999976
7906 Ai: 14 Gen: 53
7907 Sim Starting
7908 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 745.499999999999
7909 Ai: 15 Gen: 53
7910 Sim Starting
7911 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 486.700000000012
7912 Ai: 16 Gen: 53
7913 Sim Starting
7914 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 141.0
7915 Ai: 17 Gen: 53
7916 Sim Starting
7917 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 432.5999999999997
7918 Ai: 18 Gen: 53
7919 Sim Starting
7920 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 129.5
7921 Ai: 19 Gen: 53
7922 Sim Starting
```

```
7923 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 219.34999999999962
7924 Ai: 20 Gen: 53
7925 Sim Starting
7926 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 138.7000000000044
7927 Ai: 21 Gen: 53
7928 Sim Starting
7929 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 289.0
7930 Ai: 22 Gen: 53
7931 Sim Starting
7932 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -105.0
7933 Ai: 23 Gen: 53
7934 Sim Starting
7935 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -170.75
7936 Ai: 24 Gen: 53
7937 Sim Starting
7938 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 165.6500000000055
7939 Ai: 25 Gen: 53
7940 Sim Starting
7941 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 268.1000000000116
7942 Ai: 26 Gen: 53
7943 Sim Starting
7944 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
7945 Ai: 27 Gen: 53
7946 Sim Starting
7947 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 159.8500000000002
7948 Ai: 28 Gen: 53
7949 Sim Starting
7950 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2190.199999998507
7951 Ai: 29 Gen: 53
7952 Sim Starting
7953 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3011.6000000000513
7954 Ai: 30 Gen: 53
7955 Sim Starting
```

```
7956 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
7957 Ai: 31 Gen: 53
7958 Sim Starting
7959 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
7960 Ai: 32 Gen: 53
7961 Sim Starting
7962 Sim over Total pop = 0 Tick Complete = 5687
    Fitness = 1101.850000000003
7963 Ai: 33 Gen: 53
7964 Sim Starting
7965 Sim over Total pop = 0 Tick Complete = 858
    Fitness = -179.3
7966 Ai: 34 Gen: 53
7967 Sim Starting
7968 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -200.0
7969 Ai: 35 Gen: 53
7970 Sim Starting
7971 Sim over Total pop = 0 Tick Complete = 8338
    Fitness = 1566.6499999999683
7972 Ai: 36 Gen: 53
7973 Sim Starting
7974 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 423.59999999999997
7975 Ai: 37 Gen: 53
7976 Sim Starting
7977 Sim over Total pop = 0 Tick Complete = 5379
    Fitness = 715.75
7978 Ai: 38 Gen: 53
7979 Sim Starting
7980 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7981 Ai: 39 Gen: 53
7982 Sim Starting
7983 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2206.89999999875
7984 Ai: 40 Gen: 53
7985 Sim Starting
7986 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2901.9000000002575
7987 Ai: 41 Gen: 53
7988 Sim Starting
```

```
7989 Sim over Total pop = 0 Tick Complete = 632
    Fitness = 344.5
7990 Ai: 42 Gen: 53
7991 Sim Starting
7992 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7993 Ai: 43 Gen: 53
7994 Sim Starting
7995 Sim over Total pop = 0 Tick Complete = 8030
    Fitness = 1119.2000000000098
7996 Ai: 44 Gen: 53
7997 Sim Starting
7998 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3297.4500000003004
7999 Ai: 45 Gen: 53
8000 Sim Starting
8001 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 278.5
8002 Ai: 46 Gen: 53
8003 Sim Starting
8004 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8005 Ai: 47 Gen: 53
8006 Sim Starting
8007 Sim over Total pop = 0 Tick Complete = 8294
    Fitness = 1142.8000000000052
8008 Ai: 48 Gen: 53
8009 Sim Starting
8010 Sim over Total pop = 0 Tick Complete = 5885
    Fitness = 726.000000000013
8011 Ai: 49 Gen: 53
8012 Sim Starting
8013 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.7499999999995
8014 Ai: 0 Gen: 54
8015 Sim Starting
8016 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 245.5
8017 Ai: 1 Gen: 54
8018 Sim Starting
8019 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 134.0
8020 Ai: 2 Gen: 54
8021 Sim Starting
```

```
8022 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 377.5
8023 Ai: 3 Gen: 54
8024 Sim Starting
8025 Sim over Total pop = 0 Tick Complete = 5005
    Fitness = 367.000000000027
8026 Ai: 4 Gen: 54
8027 Sim Starting
8028 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
8029 Ai: 5 Gen: 54
8030 Sim Starting
8031 Sim over Total pop = 0 Tick Complete = 3740
    Fitness = 93.35000000000028
8032 Ai: 6 Gen: 54
8033 Sim Starting
8034 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
8035 Ai: 7 Gen: 54
8036 Sim Starting
8037 Sim over Total pop = 0 Tick Complete = 2684
    Fitness = 231.39999999999998
8038 Ai: 8 Gen: 54
8039 Sim Starting
8040 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 146.75
8041 Ai: 9 Gen: 54
8042 Sim Starting
8043 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 136.5
8044 Ai: 10 Gen: 54
8045 Sim Starting
8046 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 170.85000000000002
8047 Ai: 11 Gen: 54
8048 Sim Starting
8049 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 134.05
8050 Ai: 12 Gen: 54
8051 Sim Starting
8052 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 236.0
8053 Ai: 13 Gen: 54
8054 Sim Starting
```

```
8055 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 452.30000000000126
8056 Ai: 14 Gen: 54
8057 Sim Starting
8058 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8059 Ai: 15 Gen: 54
8060 Sim Starting
8061 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 298.400000000001
8062 Ai: 16 Gen: 54
8063 Sim Starting
8064 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8065 Ai: 17 Gen: 54
8066 Sim Starting
8067 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 131.3500000000002
8068 Ai: 18 Gen: 54
8069 Sim Starting
8070 Sim over Total pop = 0 Tick Complete = 4928
    Fitness = 708.399999999845
8071 Ai: 19 Gen: 54
8072 Sim Starting
8073 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 159.0
8074 Ai: 20 Gen: 54
8075 Sim Starting
8076 Sim over Total pop = 0 Tick Complete = 5027
    Fitness = 605.999999999974
8077 Ai: 21 Gen: 54
8078 Sim Starting
8079 Sim over Total pop = 0 Tick Complete = 9845
    Fitness = 855.599999999812
8080 Ai: 22 Gen: 54
8081 Sim Starting
8082 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 462.0499999999984
8083 Ai: 23 Gen: 54
8084 Sim Starting
8085 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1059.000000000029
8086 Ai: 24 Gen: 54
8087 Sim Starting
```

```
8088 Sim over Total pop = 0 Tick Complete = 13142
    Fitness = 1216.4499999999723
8089 Ai: 25 Gen: 54
8090 Sim Starting
8091 Sim over Total pop = 0 Tick Complete = 14245
    Fitness = 2370.2999999998756
8092 Ai: 26 Gen: 54
8093 Sim Starting
8094 Sim over Total pop = 0 Tick Complete = 17446
    Fitness = 2331.900000000014
8095 Ai: 27 Gen: 54
8096 Sim Starting
8097 Sim over Total pop = 0 Tick Complete = 11770
    Fitness = 2039.5000000001342
8098 Ai: 28 Gen: 54
8099 Sim Starting
8100 Sim over Total pop = 0 Tick Complete = 13145
    Fitness = 1420.000000000039
8101 Ai: 29 Gen: 54
8102 Sim Starting
8103 Sim over Total pop = 0 Tick Complete = 2112
    Fitness = 314.0500000000064
8104 Ai: 30 Gen: 54
8105 Sim Starting
8106 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2053.5500000001066
8107 Ai: 31 Gen: 54
8108 Sim Starting
8109 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2712.899999997654
8110 Ai: 32 Gen: 54
8111 Sim Starting
8112 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2286.199999998297
8113 Ai: 33 Gen: 54
8114 Sim Starting
8115 Sim over Total pop = 0 Tick Complete = 3269
    Fitness = 754.149999999899
8116 Ai: 34 Gen: 54
8117 Sim Starting
8118 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.499999997194
8119 Ai: 35 Gen: 54
8120 Sim Starting
```

```
8121 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3195.999999999696
8122 Ai: 36 Gen: 54
8123 Sim Starting
8124 Sim over Total pop = 0 Tick Complete = 11940
    Fitness = 851.099999999906
8125 Ai: 37 Gen: 54
8126 Sim Starting
8127 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2337.299999998274
8128 Ai: 38 Gen: 54
8129 Sim Starting
8130 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
8131 Ai: 39 Gen: 54
8132 Sim Starting
8133 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.4
8134 Ai: 40 Gen: 54
8135 Sim Starting
8136 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8137 Ai: 41 Gen: 54
8138 Sim Starting
8139 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1928.6500000001033
8140 Ai: 42 Gen: 54
8141 Sim Starting
8142 Sim over Total pop = 0 Tick Complete = 4012
    Fitness = 105.5999999999938
8143 Ai: 43 Gen: 54
8144 Sim Starting
8145 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1065.5500000000002
8146 Ai: 44 Gen: 54
8147 Sim Starting
8148 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 2117.299999999925
8149 Ai: 45 Gen: 54
8150 Sim Starting
8151 Sim over Total pop = 0 Tick Complete = 7782
    Fitness = 770.9999999999893
8152 Ai: 46 Gen: 54
8153 Sim Starting
```

```
8154 Sim over Total pop = 0 Tick Complete = 8558
    Fitness = 1303.1000000000136
8155 Ai: 47 Gen: 54
8156 Sim Starting
8157 Sim over Total pop = 0 Tick Complete = 10010
    Fitness = 1731.0999999999485
8158 Ai: 48 Gen: 54
8159 Sim Starting
8160 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2591.999999999798
8161 Ai: 49 Gen: 54
8162 Sim Starting
8163 Sim over Total pop = 0 Tick Complete = 5035
    Fitness = 280.0999999999984
8164 Ai: 0 Gen: 55
8165 Sim Starting
8166 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
8167 Ai: 1 Gen: 55
8168 Sim Starting
8169 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 222.0999999999985
8170 Ai: 2 Gen: 55
8171 Sim Starting
8172 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
8173 Ai: 3 Gen: 55
8174 Sim Starting
8175 Sim over Total pop = 0 Tick Complete = 5258
    Fitness = 160.1500000000003
8176 Ai: 4 Gen: 55
8177 Sim Starting
8178 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
8179 Ai: 5 Gen: 55
8180 Sim Starting
8181 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8182 Ai: 6 Gen: 55
8183 Sim Starting
8184 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 224.5
8185 Ai: 7 Gen: 55
8186 Sim Starting
```

```
8187 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 403.9999999999984
8188 Ai: 8 Gen: 55
8189 Sim Starting
8190 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8191 Ai: 9 Gen: 55
8192 Sim Starting
8193 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 252.2500000000001
8194 Ai: 10 Gen: 55
8195 Sim Starting
8196 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8197 Ai: 11 Gen: 55
8198 Sim Starting
8199 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 113.5
8200 Ai: 12 Gen: 55
8201 Sim Starting
8202 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 246.0
8203 Ai: 13 Gen: 55
8204 Sim Starting
8205 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
8206 Ai: 14 Gen: 55
8207 Sim Starting
8208 Sim over Total pop = 0 Tick Complete = 15664
    Fitness = 2085.3500000001054
8209 Ai: 15 Gen: 55
8210 Sim Starting
8211 Sim over Total pop = 0 Tick Complete = 6732
    Fitness = 1134.200000000207
8212 Ai: 16 Gen: 55
8213 Sim Starting
8214 Sim over Total pop = 0 Tick Complete = 5313
    Fitness = 905.4499999999845
8215 Ai: 17 Gen: 55
8216 Sim Starting
8217 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -196.6
8218 Ai: 18 Gen: 55
8219 Sim Starting
```

```
8220 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1965.5999999998837
8221 Ai: 19 Gen: 55
8222 Sim Starting
8223 Sim over Total pop = 0 Tick Complete = 2868
    Fitness = 233.5000000000006
8224 Ai: 20 Gen: 55
8225 Sim Starting
8226 Sim over Total pop = 0 Tick Complete = 12067
    Fitness = 496.9499999999334
8227 Ai: 21 Gen: 55
8228 Sim Starting
8229 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 277.25
8230 Ai: 22 Gen: 55
8231 Sim Starting
8232 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 647.500000000033
8233 Ai: 23 Gen: 55
8234 Sim Starting
8235 Sim over Total pop = 0 Tick Complete = 19195
    Fitness = 2217.3999999986
8236 Ai: 24 Gen: 55
8237 Sim Starting
8238 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 240.200000000016
8239 Ai: 25 Gen: 55
8240 Sim Starting
8241 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8242 Ai: 26 Gen: 55
8243 Sim Starting
8244 Sim over Total pop = 0 Tick Complete = 5126
    Fitness = 159.4499999999965
8245 Ai: 27 Gen: 55
8246 Sim Starting
8247 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2475.999999998076
8248 Ai: 28 Gen: 55
8249 Sim Starting
8250 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2385.99999999817
8251 Ai: 29 Gen: 55
8252 Sim Starting
```

```
8253 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1663.9999999999266
8254 Ai: 30 Gen: 55
8255 Sim Starting
8256 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
8257 Ai: 31 Gen: 55
8258 Sim Starting
8259 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8260 Ai: 32 Gen: 55
8261 Sim Starting
8262 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8263 Ai: 33 Gen: 55
8264 Sim Starting
8265 Sim over Total pop = 0 Tick Complete = 9119
    Fitness = 952.0000000000254
8266 Ai: 34 Gen: 55
8267 Sim Starting
8268 Sim over Total pop = 0 Tick Complete = 18095
    Fitness = 1460.5499999999513
8269 Ai: 35 Gen: 55
8270 Sim Starting
8271 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8272 Ai: 36 Gen: 55
8273 Sim Starting
8274 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3891.4999999995903
8275 Ai: 37 Gen: 55
8276 Sim Starting
8277 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
8278 Ai: 38 Gen: 55
8279 Sim Starting
8280 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3624.5999999996275
8281 Ai: 39 Gen: 55
8282 Sim Starting
8283 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.5000000000209
8284 Ai: 40 Gen: 55
8285 Sim Starting
```

```
8286 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
8287 Ai: 41 Gen: 55
8288 Sim Starting
8289 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2445.99999999808
8290 Ai: 42 Gen: 55
8291 Sim Starting
8292 Sim over Total pop = 0 Tick Complete = 12097
    Fitness = 1255.000000000086
8293 Ai: 43 Gen: 55
8294 Sim Starting
8295 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2551.69999999788
8296 Ai: 44 Gen: 55
8297 Sim Starting
8298 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2440.499999998067
8299 Ai: 45 Gen: 55
8300 Sim Starting
8301 Sim over Total pop = 0 Tick Complete = 632
    Fitness = 223.5
8302 Ai: 46 Gen: 55
8303 Sim Starting
8304 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2456.59999999806
8305 Ai: 47 Gen: 55
8306 Sim Starting
8307 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
8308 Ai: 48 Gen: 55
8309 Sim Starting
8310 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8311 Ai: 0 Gen: 56
8312 Sim Starting
8313 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
8314 Ai: 1 Gen: 56
8315 Sim Starting
8316 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 212.5
8317 Ai: 2 Gen: 56
8318 Sim Starting
```

```
8319 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
8320 Ai: 3 Gen: 56
8321 Sim Starting
8322 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
8323 Ai: 4 Gen: 56
8324 Sim Starting
8325 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 143.9000000000038
8326 Ai: 5 Gen: 56
8327 Sim Starting
8328 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8329 Ai: 6 Gen: 56
8330 Sim Starting
8331 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8332 Ai: 7 Gen: 56
8333 Sim Starting
8334 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 153.5
8335 Ai: 8 Gen: 56
8336 Sim Starting
8337 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8338 Ai: 9 Gen: 56
8339 Sim Starting
8340 Sim over Total pop = 0 Tick Complete = 8008
    Fitness = 682.7500000000018
8341 Ai: 10 Gen: 56
8342 Sim Starting
8343 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 545.7000000000028
8344 Ai: 11 Gen: 56
8345 Sim Starting
8346 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 145.75
8347 Ai: 12 Gen: 56
8348 Sim Starting
8349 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
8350 Ai: 13 Gen: 56
8351 Sim Starting
```

```
8352 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 155.5
8353 Ai: 14 Gen: 56
8354 Sim Starting
8355 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -200.6
8356 Ai: 15 Gen: 56
8357 Sim Starting
8358 Sim over Total pop = 0 Tick Complete = 5500
    Fitness = 558.5500000000056
8359 Ai: 16 Gen: 56
8360 Sim Starting
8361 Sim over Total pop = 0 Tick Complete = 5819
    Fitness = 604.899999999883
8362 Ai: 17 Gen: 56
8363 Sim Starting
8364 Sim over Total pop = 0 Tick Complete = 7491
    Fitness = 787.799999999878
8365 Ai: 18 Gen: 56
8366 Sim Starting
8367 Sim over Total pop = 0 Tick Complete = 6655
    Fitness = 715.8500000000017
8368 Ai: 19 Gen: 56
8369 Sim Starting
8370 Sim over Total pop = 0 Tick Complete = 10967
    Fitness = 422.4499999999584
8371 Ai: 20 Gen: 56
8372 Sim Starting
8373 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = -1.499999999999893
8374 Ai: 21 Gen: 56
8375 Sim Starting
8376 Sim over Total pop = 0 Tick Complete = 10142
    Fitness = 943.999999999961
8377 Ai: 22 Gen: 56
8378 Sim Starting
8379 Sim over Total pop = 0 Tick Complete = 4763
    Fitness = 500.4500000000048
8380 Ai: 23 Gen: 56
8381 Sim Starting
8382 Sim over Total pop = 0 Tick Complete = 4972
    Fitness = 705.5499999999926
8383 Ai: 24 Gen: 56
8384 Sim Starting
```

```
8385 Sim over Total pop = 0 Tick Complete = 8745
    Fitness = 1523.5000000000273
8386 Ai: 25 Gen: 56
8387 Sim Starting
8388 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -165.85
8389 Ai: 26 Gen: 56
8390 Sim Starting
8391 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 149.1499999999975
8392 Ai: 27 Gen: 56
8393 Sim Starting
8394 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3142.7499999997003
8395 Ai: 28 Gen: 56
8396 Sim Starting
8397 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2813.699999997465
8398 Ai: 29 Gen: 56
8399 Sim Starting
8400 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3378.1999999996674
8401 Ai: 30 Gen: 56
8402 Sim Starting
8403 Sim over Total pop = 0 Tick Complete = 11717
    Fitness = 1207.7999999999984
8404 Ai: 31 Gen: 56
8405 Sim Starting
8406 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2576.299999998324
8407 Ai: 32 Gen: 56
8408 Sim Starting
8409 Sim over Total pop = 0 Tick Complete = 6311
    Fitness = 1284.549999999747
8410 Ai: 33 Gen: 56
8411 Sim Starting
8412 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2411.199999999252
8413 Ai: 34 Gen: 56
8414 Sim Starting
8415 Sim over Total pop = 0 Tick Complete = 8566
    Fitness = 736.9000000000083
8416 Ai: 35 Gen: 56
8417 Sim Starting
```

```
8418 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 4646.999999998945
8419 Ai: 36 Gen: 56
8420 Sim Starting
8421 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2560.499999997876
8422 Ai: 37 Gen: 56
8423 Sim Starting
8424 Sim over Total pop = 0 Tick Complete = 2997
    Fitness = -90.69999999999999
8425 Ai: 38 Gen: 56
8426 Sim Starting
8427 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2427.39999999811
8428 Ai: 39 Gen: 56
8429 Sim Starting
8430 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
8431 Ai: 40 Gen: 56
8432 Sim Starting
8433 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3773.799999996073
8434 Ai: 41 Gen: 56
8435 Sim Starting
8436 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1222.599999999942
8437 Ai: 42 Gen: 56
8438 Sim Starting
8439 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
8440 Ai: 43 Gen: 56
8441 Sim Starting
8442 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8443 Ai: 44 Gen: 56
8444 Sim Starting
8445 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1817.799999999038
8446 Ai: 45 Gen: 56
8447 Sim Starting
8448 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3993.49999999575
8449 Ai: 46 Gen: 56
8450 Sim Starting
```

```
8451 Sim over Total pop = 0 Tick Complete = 6660
    Fitness = 1106.5
8452 Ai: 47 Gen: 56
8453 Sim Starting
8454 Sim over Total pop = 0 Tick Complete = 11792
    Fitness = 1106.700000000036
8455 Ai: 48 Gen: 56
8456 Sim Starting
8457 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8458 Ai: 49 Gen: 56
8459 Sim Starting
8460 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8461 Ai: 50 Gen: 56
8462 Sim Starting
8463 Sim over Total pop = 0 Tick Complete = 2112
    Fitness = 412.7000000000334
8464 Ai: 0 Gen: 57
8465 Sim Starting
8466 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
8467 Ai: 1 Gen: 57
8468 Sim Starting
8469 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
8470 Ai: 2 Gen: 57
8471 Sim Starting
8472 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8473 Ai: 3 Gen: 57
8474 Sim Starting
8475 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8476 Ai: 4 Gen: 57
8477 Sim Starting
8478 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 386.5
8479 Ai: 5 Gen: 57
8480 Sim Starting
8481 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8482 Ai: 6 Gen: 57
8483 Sim Starting
```

```
8484 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 427.50000000000074
8485 Ai: 7 Gen: 57
8486 Sim Starting
8487 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 805.6000000000054
8488 Ai: 8 Gen: 57
8489 Sim Starting
8490 Sim over Total pop = 0 Tick Complete = 4994
    Fitness = 312.5000000000136
8491 Ai: 9 Gen: 57
8492 Sim Starting
8493 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
8494 Ai: 10 Gen: 57
8495 Sim Starting
8496 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 136.5
8497 Ai: 11 Gen: 57
8498 Sim Starting
8499 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 646.250000000002
8500 Ai: 12 Gen: 57
8501 Sim Starting
8502 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 440.9999999999886
8503 Ai: 13 Gen: 57
8504 Sim Starting
8505 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 347.149999999994
8506 Ai: 14 Gen: 57
8507 Sim Starting
8508 Sim over Total pop = 0 Tick Complete = 2420
    Fitness = 497.299999999987
8509 Ai: 15 Gen: 57
8510 Sim Starting
8511 Sim over Total pop = 0 Tick Complete = 2398
    Fitness = 131.3499999999977
8512 Ai: 16 Gen: 57
8513 Sim Starting
8514 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8515 Ai: 17 Gen: 57
8516 Sim Starting
```

```
8517 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 653.6000000000091
8518 Ai: 18 Gen: 57
8519 Sim Starting
8520 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 298.7499999999943
8521 Ai: 19 Gen: 57
8522 Sim Starting
8523 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = -111.8499999999943
8524 Ai: 20 Gen: 57
8525 Sim Starting
8526 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -68.05
8527 Ai: 21 Gen: 57
8528 Sim Starting
8529 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -90.5
8530 Ai: 22 Gen: 57
8531 Sim Starting
8532 Sim over Total pop = 0 Tick Complete = 4422
    Fitness = 97.7499999999937
8533 Ai: 23 Gen: 57
8534 Sim Starting
8535 Sim over Total pop = 0 Tick Complete = 14850
    Fitness = 980.199999999802
8536 Ai: 24 Gen: 57
8537 Sim Starting
8538 Sim over Total pop = 0 Tick Complete = 5896
    Fitness = 1105.800000000254
8539 Ai: 25 Gen: 57
8540 Sim Starting
8541 Sim over Total pop = 0 Tick Complete = 5346
    Fitness = 629.650000000007
8542 Ai: 26 Gen: 57
8543 Sim Starting
8544 Sim over Total pop = 0 Tick Complete = 5137
    Fitness = 670.75
8545 Ai: 27 Gen: 57
8546 Sim Starting
8547 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2320.499999998213
8548 Ai: 28 Gen: 57
8549 Sim Starting
```

```
8550 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3435.7999999996555
8551 Ai: 29 Gen: 57
8552 Sim Starting
8553 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2530.499999999793
8554 Ai: 30 Gen: 57
8555 Sim Starting
8556 Sim over Total pop = 0 Tick Complete = 6668
    Fitness = 801.45
8557 Ai: 31 Gen: 57
8558 Sim Starting
8559 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2680.499999999704
8560 Ai: 32 Gen: 57
8561 Sim Starting
8562 Sim over Total pop = 0 Tick Complete = 9127
    Fitness = 1982.9000000000278
8563 Ai: 33 Gen: 57
8564 Sim Starting
8565 Sim over Total pop = 0 Tick Complete = 9680
    Fitness = 573.2500000000003
8566 Ai: 34 Gen: 57
8567 Sim Starting
8568 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8569 Ai: 35 Gen: 57
8570 Sim Starting
8571 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2074.900000000128
8572 Ai: 36 Gen: 57
8573 Sim Starting
8574 Sim over Total pop = 0 Tick Complete = 18642
    Fitness = 2644.9999999997717
8575 Ai: 37 Gen: 57
8576 Sim Starting
8577 Sim over Total pop = 0 Tick Complete = 8569
    Fitness = 976.2500000000296
8578 Ai: 38 Gen: 57
8579 Sim Starting
8580 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8581 Ai: 39 Gen: 57
8582 Sim Starting
```

```
8583 Sim over Total pop = 0 Tick Complete = 7612
    Fitness = 623.650000000011
8584 Ai: 40 Gen: 57
8585 Sim Starting
8586 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3051.899999997172
8587 Ai: 41 Gen: 57
8588 Sim Starting
8589 Sim over Total pop = 0 Tick Complete = 7466
    Fitness = 975.7500000000285
8590 Ai: 42 Gen: 57
8591 Sim Starting
8592 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2543.69999999791
8593 Ai: 43 Gen: 57
8594 Sim Starting
8595 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
8596 Ai: 44 Gen: 57
8597 Sim Starting
8598 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = 336.500000000019
8599 Ai: 45 Gen: 57
8600 Sim Starting
8601 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.8
8602 Ai: 46 Gen: 57
8603 Sim Starting
8604 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2569.499999997895
8605 Ai: 47 Gen: 57
8606 Sim Starting
8607 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
8608 Ai: 48 Gen: 57
8609 Sim Starting
8610 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3105.99999999709
8611 Ai: 49 Gen: 57
8612 Sim Starting
8613 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2087.49999999864
8614 Ai: 50 Gen: 57
8615 Sim Starting
```

```
8616 Sim over Total pop = 0 Tick Complete = 9113
    Fitness = 980.3000000000286
8617 Ai: 0 Gen: 58
8618 Sim Starting
8619 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8620 Ai: 1 Gen: 58
8621 Sim Starting
8622 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
8623 Ai: 2 Gen: 58
8624 Sim Starting
8625 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 443.5
8626 Ai: 3 Gen: 58
8627 Sim Starting
8628 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
8629 Ai: 4 Gen: 58
8630 Sim Starting
8631 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
8632 Ai: 5 Gen: 58
8633 Sim Starting
8634 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 98.44999999999986
8635 Ai: 6 Gen: 58
8636 Sim Starting
8637 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
8638 Ai: 7 Gen: 58
8639 Sim Starting
8640 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 174.0
8641 Ai: 8 Gen: 58
8642 Sim Starting
8643 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
8644 Ai: 9 Gen: 58
8645 Sim Starting
8646 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8647 Ai: 10 Gen: 58
8648 Sim Starting
```

```
8649 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 282.65000000000008
8650 Ai: 11 Gen: 58
8651 Sim Starting
8652 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 292.44999999999993
8653 Ai: 12 Gen: 58
8654 Sim Starting
8655 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 431.900000000028
8656 Ai: 13 Gen: 58
8657 Sim Starting
8658 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8659 Ai: 14 Gen: 58
8660 Sim Starting
8661 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
8662 Ai: 15 Gen: 58
8663 Sim Starting
8664 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 154.2999999999998
8665 Ai: 16 Gen: 58
8666 Sim Starting
8667 Sim over Total pop = 0 Tick Complete = 5808
    Fitness = 540.5
8668 Ai: 17 Gen: 58
8669 Sim Starting
8670 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 792.5500000000008
8671 Ai: 18 Gen: 58
8672 Sim Starting
8673 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 289.5999999999998
8674 Ai: 19 Gen: 58
8675 Sim Starting
8676 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8677 Ai: 20 Gen: 58
8678 Sim Starting
8679 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1349.39999999997
8680 Ai: 21 Gen: 58
8681 Sim Starting
```

```
8682 Sim over Total pop = 0 Tick Complete = 2351
    Fitness = 678.5999999999996
8683 Ai: 22 Gen: 58
8684 Sim Starting
8685 Sim over Total pop = 0 Tick Complete = 4510
    Fitness = 521.2499999999986
8686 Ai: 23 Gen: 58
8687 Sim Starting
8688 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 259.2
8689 Ai: 24 Gen: 58
8690 Sim Starting
8691 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 122.75000000000011
8692 Ai: 25 Gen: 58
8693 Sim Starting
8694 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8695 Ai: 26 Gen: 58
8696 Sim Starting
8697 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 801.3999999999985
8698 Ai: 27 Gen: 58
8699 Sim Starting
8700 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2990.099999997266
8701 Ai: 28 Gen: 58
8702 Sim Starting
8703 Sim over Total pop = 0 Tick Complete = 19192
    Fitness = 3429.79999999965
8704 Ai: 29 Gen: 58
8705 Sim Starting
8706 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -192.0
8707 Ai: 30 Gen: 58
8708 Sim Starting
8709 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8710 Ai: 31 Gen: 58
8711 Sim Starting
8712 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8713 Ai: 32 Gen: 58
8714 Sim Starting
```

```
8715 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8716 Ai: 33 Gen: 58
8717 Sim Starting
8718 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8719 Ai: 34 Gen: 58
8720 Sim Starting
8721 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8722 Ai: 35 Gen: 58
8723 Sim Starting
8724 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8725 Ai: 36 Gen: 58
8726 Sim Starting
8727 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8728 Ai: 37 Gen: 58
8729 Sim Starting
8730 Sim over Total pop = 0 Tick Complete = 3905
    Fitness = 104.4999999999942
8731 Ai: 38 Gen: 58
8732 Sim Starting
8733 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8734 Ai: 39 Gen: 58
8735 Sim Starting
8736 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1999.149999998791
8737 Ai: 40 Gen: 58
8738 Sim Starting
8739 Sim over Total pop = 0 Tick Complete = 15617
    Fitness = 1632.300000000684
8740 Ai: 41 Gen: 58
8741 Sim Starting
8742 Sim over Total pop = 0 Tick Complete = 9482
    Fitness = 961.600000000257
8743 Ai: 42 Gen: 58
8744 Sim Starting
8745 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2016.150000000117
8746 Ai: 43 Gen: 58
8747 Sim Starting
```

```
8748 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 969.5999999999776
8749 Ai: 44 Gen: 58
8750 Sim Starting
8751 Sim over Total pop = 0 Tick Complete = 1644
    Fitness = 216.7499999999892
8752 Ai: 45 Gen: 58
8753 Sim Starting
8754 Sim over Total pop = 0 Tick Complete = 12705
    Fitness = 1625.7500000000634
8755 Ai: 46 Gen: 58
8756 Sim Starting
8757 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
8758 Ai: 47 Gen: 58
8759 Sim Starting
8760 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1893.6999999999048
8761 Ai: 48 Gen: 58
8762 Sim Starting
8763 Sim over Total pop = 0 Tick Complete = 3275
    Fitness = 167.7500000000003
8764 Ai: 49 Gen: 58
8765 Sim Starting
8766 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 294.5499999999995
8767 Ai: 50 Gen: 58
8768 Sim Starting
8769 Sim over Total pop = 0 Tick Complete = 9196
    Fitness = 1371.8000000000409
8770 Ai: 0 Gen: 59
8771 Sim Starting
8772 Sim over Total pop = 0 Tick Complete = 4356
    Fitness = 655.4999999999997
8773 Ai: 1 Gen: 59
8774 Sim Starting
8775 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8776 Ai: 2 Gen: 59
8777 Sim Starting
8778 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 391.5499999999774
8779 Ai: 3 Gen: 59
8780 Sim Starting
```

```
8781 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 273.0
8782 Ai: 4 Gen: 59
8783 Sim Starting
8784 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 433.7000000000003
8785 Ai: 5 Gen: 59
8786 Sim Starting
8787 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
8788 Ai: 6 Gen: 59
8789 Sim Starting
8790 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 190.5
8791 Ai: 7 Gen: 59
8792 Sim Starting
8793 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
8794 Ai: 8 Gen: 59
8795 Sim Starting
8796 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 135.5
8797 Ai: 9 Gen: 59
8798 Sim Starting
8799 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 40.29999999999994
8800 Ai: 10 Gen: 59
8801 Sim Starting
8802 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8803 Ai: 11 Gen: 59
8804 Sim Starting
8805 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8806 Ai: 12 Gen: 59
8807 Sim Starting
8808 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
8809 Ai: 13 Gen: 59
8810 Sim Starting
8811 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
8812 Ai: 14 Gen: 59
8813 Sim Starting
```

```
8814 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
8815 Ai: 15 Gen: 59
8816 Sim Starting
8817 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
8818 Ai: 16 Gen: 59
8819 Sim Starting
8820 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8821 Ai: 17 Gen: 59
8822 Sim Starting
8823 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
8824 Ai: 18 Gen: 59
8825 Sim Starting
8826 Sim over Total pop = 0 Tick Complete = 17006
    Fitness = 1442.9000000000442
8827 Ai: 19 Gen: 59
8828 Sim Starting
8829 Sim over Total pop = 0 Tick Complete = 13200
    Fitness = 661.7500000000147
8830 Ai: 20 Gen: 59
8831 Sim Starting
8832 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 163.4500000000016
8833 Ai: 21 Gen: 59
8834 Sim Starting
8835 Sim over Total pop = 0 Tick Complete = 15378
    Fitness = 742.499999999842
8836 Ai: 22 Gen: 59
8837 Sim Starting
8838 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 298.9
8839 Ai: 23 Gen: 59
8840 Sim Starting
8841 Sim over Total pop = 0 Tick Complete = 5071
    Fitness = 688.249999999989
8842 Ai: 24 Gen: 59
8843 Sim Starting
8844 Sim over Total pop = 0 Tick Complete = 7018
    Fitness = 415.300000000000007
8845 Ai: 25 Gen: 59
8846 Sim Starting
```

```
8847 Sim over Total pop = 0 Tick Complete = 7381
    Fitness = 977.149999999982
8848 Ai: 26 Gen: 59
8849 Sim Starting
8850 Sim over Total pop = 0 Tick Complete = 8294
    Fitness = 324.449999999988
8851 Ai: 27 Gen: 59
8852 Sim Starting
8853 Sim over Total pop = 0 Tick Complete = 16170
    Fitness = 733.999999999985
8854 Ai: 28 Gen: 59
8855 Sim Starting
8856 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -116.0
8857 Ai: 29 Gen: 59
8858 Sim Starting
8859 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 241.200000000004
8860 Ai: 30 Gen: 59
8861 Sim Starting
8862 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2835.99999999749
8863 Ai: 31 Gen: 59
8864 Sim Starting
8865 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3261.499999996885
8866 Ai: 32 Gen: 59
8867 Sim Starting
8868 Sim over Total pop = 0 Tick Complete = 17770
    Fitness = 1519.299999999918
8869 Ai: 33 Gen: 59
8870 Sim Starting
8871 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8872 Ai: 34 Gen: 59
8873 Sim Starting
8874 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2808.89999999754
8875 Ai: 35 Gen: 59
8876 Sim Starting
8877 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
8878 Ai: 36 Gen: 59
8879 Sim Starting
```

```
8880 Sim over Total pop = 0 Tick Complete = 15620
    Fitness = 1788.1000000000115
8881 Ai: 37 Gen: 59
8882 Sim Starting
8883 Sim over Total pop = 0 Tick Complete = 14333
    Fitness = 1108.4999999999902
8884 Ai: 38 Gen: 59
8885 Sim Starting
8886 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2479.549999999983
8887 Ai: 39 Gen: 59
8888 Sim Starting
8889 Sim over Total pop = 0 Tick Complete = 9303
    Fitness = 921.300000000012
8890 Ai: 40 Gen: 59
8891 Sim Starting
8892 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8893 Ai: 41 Gen: 59
8894 Sim Starting
8895 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 1125.6999999999985
8896 Ai: 42 Gen: 59
8897 Sim Starting
8898 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 2840.0500000000447
8899 Ai: 43 Gen: 59
8900 Sim Starting
8901 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
8902 Ai: 44 Gen: 59
8903 Sim Starting
8904 Sim over Total pop = 0 Tick Complete = 6545
    Fitness = 714.5999999999965
8905 Ai: 45 Gen: 59
8906 Sim Starting
8907 Sim over Total pop = 0 Tick Complete = 7788
    Fitness = 795.1999999999866
8908 Ai: 46 Gen: 59
8909 Sim Starting
8910 Sim over Total pop = 0 Tick Complete = 17963
    Fitness = 1433.9000000000044
8911 Ai: 47 Gen: 59
8912 Sim Starting
```

```
8913 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2489.4999999997985
8914 Ai: 48 Gen: 59
8915 Sim Starting
8916 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2629.3500000000126
8917 Ai: 49 Gen: 59
8918 Sim Starting
8919 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
8920 Ai: 50 Gen: 59
8921 Sim Starting
8922 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
8923 Ai: 0 Gen: 60
8924 Sim Starting
8925 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
8926 Ai: 1 Gen: 60
8927 Sim Starting
8928 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
8929 Ai: 2 Gen: 60
8930 Sim Starting
8931 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
8932 Ai: 3 Gen: 60
8933 Sim Starting
8934 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
8935 Ai: 4 Gen: 60
8936 Sim Starting
8937 Sim over Total pop = 0 Tick Complete = 7744
    Fitness = 629.6000000000079
8938 Ai: 5 Gen: 60
8939 Sim Starting
8940 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
8941 Ai: 6 Gen: 60
8942 Sim Starting
8943 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 627.9
8944 Ai: 7 Gen: 60
8945 Sim Starting
```

```
8946 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 598.0500000000028
8947 Ai: 8 Gen: 60
8948 Sim Starting
8949 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 513.0000000000001
8950 Ai: 9 Gen: 60
8951 Sim Starting
8952 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
8953 Ai: 10 Gen: 60
8954 Sim Starting
8955 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 309.099999999998
8956 Ai: 11 Gen: 60
8957 Sim Starting
8958 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 270.75
8959 Ai: 12 Gen: 60
8960 Sim Starting
8961 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
8962 Ai: 13 Gen: 60
8963 Sim Starting
8964 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
8965 Ai: 14 Gen: 60
8966 Sim Starting
8967 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 72.5
8968 Ai: 15 Gen: 60
8969 Sim Starting
8970 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
8971 Ai: 16 Gen: 60
8972 Sim Starting
8973 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 888.800000000213
8974 Ai: 17 Gen: 60
8975 Sim Starting
8976 Sim over Total pop = 0 Tick Complete = 2307
    Fitness = 543.049999999975
8977 Ai: 18 Gen: 60
8978 Sim Starting
```

```
8979 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 292.0
8980 Ai: 19 Gen: 60
8981 Sim Starting
8982 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 403.0000000000233
8983 Ai: 20 Gen: 60
8984 Sim Starting
8985 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -190.4499999999999
8986 Ai: 21 Gen: 60
8987 Sim Starting
8988 Sim over Total pop = 0 Tick Complete = 6182
    Fitness = 295.7500000000002
8989 Ai: 22 Gen: 60
8990 Sim Starting
8991 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 573.4500000000002
8992 Ai: 23 Gen: 60
8993 Sim Starting
8994 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = -131.7999999999987
8995 Ai: 24 Gen: 60
8996 Sim Starting
8997 Sim over Total pop = 0 Tick Complete = 9482
    Fitness = 1003.5000000000284
8998 Ai: 25 Gen: 60
8999 Sim Starting
9000 Sim over Total pop = 0 Tick Complete = 7205
    Fitness = 438.300000000043
9001 Ai: 26 Gen: 60
9002 Sim Starting
9003 Sim over Total pop = 0 Tick Complete = 3806
    Fitness = 412.3500000000028
9004 Ai: 27 Gen: 60
9005 Sim Starting
9006 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2440.499999998067
9007 Ai: 28 Gen: 60
9008 Sim Starting
9009 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2026.5499999999997
9010 Ai: 29 Gen: 60
9011 Sim Starting
```

```
9012 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
9013 Ai: 30 Gen: 60
9014 Sim Starting
9015 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9016 Ai: 31 Gen: 60
9017 Sim Starting
9018 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.350000000021
9019 Ai: 32 Gen: 60
9020 Sim Starting
9021 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 4136.999999999587
9022 Ai: 33 Gen: 60
9023 Sim Starting
9024 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3082.550000000003
9025 Ai: 34 Gen: 60
9026 Sim Starting
9027 Sim over Total pop = 0 Tick Complete = 8934
    Fitness = 1035.1000000000304
9028 Ai: 35 Gen: 60
9029 Sim Starting
9030 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9031 Ai: 36 Gen: 60
9032 Sim Starting
9033 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2644.150000000208
9034 Ai: 37 Gen: 60
9035 Sim Starting
9036 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1727.4000000000835
9037 Ai: 38 Gen: 60
9038 Sim Starting
9039 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.450000000021
9040 Ai: 39 Gen: 60
9041 Sim Starting
9042 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2630.4999999997817
9043 Ai: 40 Gen: 60
9044 Sim Starting
```

```
9045 Sim over Total pop = 0 Tick Complete = 505
    Fitness = -203.8
9046 Ai: 41 Gen: 60
9047 Sim Starting
9048 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9049 Ai: 42 Gen: 60
9050 Sim Starting
9051 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2175.999999998527
9052 Ai: 43 Gen: 60
9053 Sim Starting
9054 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2500.499999997967
9055 Ai: 44 Gen: 60
9056 Sim Starting
9057 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
9058 Ai: 45 Gen: 60
9059 Sim Starting
9060 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9061 Ai: 46 Gen: 60
9062 Sim Starting
9063 Sim over Total pop = 0 Tick Complete = 5467
    Fitness = 189.7500000000026
9064 Ai: 47 Gen: 60
9065 Sim Starting
9066 Sim over Total pop = 0 Tick Complete = 9119
    Fitness = 792.000000000158
9067 Ai: 48 Gen: 60
9068 Sim Starting
9069 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9070 Ai: 49 Gen: 60
9071 Sim Starting
9072 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 4261.74999999783
9073 Ai: 0 Gen: 61
9074 Sim Starting
9075 Sim over Total pop = 0 Tick Complete = 4320
    Fitness = 639.900000000027
9076 Ai: 1 Gen: 61
9077 Sim Starting
```

```
9078 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
9079 Ai: 2 Gen: 61
9080 Sim Starting
9081 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -3.950000000000017
9082 Ai: 3 Gen: 61
9083 Sim Starting
9084 Sim over Total pop = 0 Tick Complete = 2904
    Fitness = 355.0
9085 Ai: 4 Gen: 61
9086 Sim Starting
9087 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 241.6000000000002
9088 Ai: 5 Gen: 61
9089 Sim Starting
9090 Sim over Total pop = 0 Tick Complete = 5291
    Fitness = 539.2000000000013
9091 Ai: 6 Gen: 61
9092 Sim Starting
9093 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 245.3999999999998
9094 Ai: 7 Gen: 61
9095 Sim Starting
9096 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
9097 Ai: 8 Gen: 61
9098 Sim Starting
9099 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 314.9500000000004
9100 Ai: 9 Gen: 61
9101 Sim Starting
9102 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 350.0
9103 Ai: 10 Gen: 61
9104 Sim Starting
9105 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 24.750000000000085
9106 Ai: 11 Gen: 61
9107 Sim Starting
9108 Sim over Total pop = 0 Tick Complete = 5115
    Fitness = 409.5
9109 Ai: 12 Gen: 61
9110 Sim Starting
```

```
9111 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
9112 Ai: 13 Gen: 61
9113 Sim Starting
9114 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 78.0000000000036
9115 Ai: 14 Gen: 61
9116 Sim Starting
9117 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
9118 Ai: 15 Gen: 61
9119 Sim Starting
9120 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 188.7000000000005
9121 Ai: 16 Gen: 61
9122 Sim Starting
9123 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = -75.3500000000007
9124 Ai: 17 Gen: 61
9125 Sim Starting
9126 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 345.4999999999994
9127 Ai: 18 Gen: 61
9128 Sim Starting
9129 Sim over Total pop = 0 Tick Complete = 4070
    Fitness = 649.4499999999997
9130 Ai: 19 Gen: 61
9131 Sim Starting
9132 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -165.5
9133 Ai: 20 Gen: 61
9134 Sim Starting
9135 Sim over Total pop = 0 Tick Complete = 9669
    Fitness = 1219.049999999997
9136 Ai: 21 Gen: 61
9137 Sim Starting
9138 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 232.3000000000004
9139 Ai: 22 Gen: 61
9140 Sim Starting
9141 Sim over Total pop = 0 Tick Complete = 3256
    Fitness = 521.0499999999945
9142 Ai: 23 Gen: 61
9143 Sim Starting
```

```
9144 Sim over Total pop = 0 Tick Complete = 8822
    Fitness = 833.2500000000097
9145 Ai: 24 Gen: 61
9146 Sim Starting
9147 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 213.5
9148 Ai: 25 Gen: 61
9149 Sim Starting
9150 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1498.949999999553
9151 Ai: 26 Gen: 61
9152 Sim Starting
9153 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2992.499999999722
9154 Ai: 27 Gen: 61
9155 Sim Starting
9156 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 4047.399999999566
9157 Ai: 28 Gen: 61
9158 Sim Starting
9159 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
9160 Ai: 29 Gen: 61
9161 Sim Starting
9162 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9163 Ai: 30 Gen: 61
9164 Sim Starting
9165 Sim over Total pop = 0 Tick Complete = 19701
    Fitness = 2836.4000000001643
9166 Ai: 31 Gen: 61
9167 Sim Starting
9168 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9169 Ai: 32 Gen: 61
9170 Sim Starting
9171 Sim over Total pop = 0 Tick Complete = 6468
    Fitness = 493.600000000041
9172 Ai: 33 Gen: 61
9173 Sim Starting
9174 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2049.750000000026
9175 Ai: 34 Gen: 61
9176 Sim Starting
```

```
9177 Sim over Total pop = 0 Tick Complete = 5222
    Fitness = 657.3000000000111
9178 Ai: 35 Gen: 61
9179 Sim Starting
9180 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 477.049999999996
9181 Ai: 36 Gen: 61
9182 Sim Starting
9183 Sim over Total pop = 0 Tick Complete = 6666
    Fitness = 772.649999999896
9184 Ai: 37 Gen: 61
9185 Sim Starting
9186 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2565.99999999979
9187 Ai: 38 Gen: 61
9188 Sim Starting
9189 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2373.99999999819
9190 Ai: 39 Gen: 61
9191 Sim Starting
9192 Sim over Total pop = 0 Tick Complete = 16285
    Fitness = 1689.8000000000889
9193 Ai: 40 Gen: 61
9194 Sim Starting
9195 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1991.2000000000507
9196 Ai: 41 Gen: 61
9197 Sim Starting
9198 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -203.65
9199 Ai: 42 Gen: 61
9200 Sim Starting
9201 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9202 Ai: 43 Gen: 61
9203 Sim Starting
9204 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2265.99999999839
9205 Ai: 44 Gen: 61
9206 Sim Starting
9207 Sim over Total pop = 0 Tick Complete = 14803
    Fitness = 1411.799999999345
9208 Ai: 45 Gen: 61
9209 Sim Starting
```

```
9210 Sim over Total pop = 0 Tick Complete = 10120
    Fitness = 1391.0500000000297
9211 Ai: 46 Gen: 61
9212 Sim Starting
9213 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.2500000000209
9214 Ai: 47 Gen: 61
9215 Sim Starting
9216 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.450000000021
9217 Ai: 48 Gen: 61
9218 Sim Starting
9219 Sim over Total pop = 0 Tick Complete = 4042
    Fitness = 557.4000000000009
9220 Ai: 49 Gen: 61
9221 Sim Starting
9222 Sim over Total pop = 0 Tick Complete = 19745
    Fitness = 1419.8499999999597
9223 Ai: 0 Gen: 62
9224 Sim Starting
9225 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 721.700000000012
9226 Ai: 1 Gen: 62
9227 Sim Starting
9228 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
9229 Ai: 2 Gen: 62
9230 Sim Starting
9231 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 185.0
9232 Ai: 3 Gen: 62
9233 Sim Starting
9234 Sim over Total pop = 0 Tick Complete = 18524
    Fitness = 1187.700000000012
9235 Ai: 4 Gen: 62
9236 Sim Starting
9237 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
9238 Ai: 5 Gen: 62
9239 Sim Starting
9240 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 78.0
9241 Ai: 6 Gen: 62
9242 Sim Starting
```

```
9243 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 450.1000000000014
9244 Ai: 7 Gen: 62
9245 Sim Starting
9246 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
9247 Ai: 8 Gen: 62
9248 Sim Starting
9249 Sim over Total pop = 0 Tick Complete = 8415
    Fitness = 780.000000000008
9250 Ai: 9 Gen: 62
9251 Sim Starting
9252 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
9253 Ai: 10 Gen: 62
9254 Sim Starting
9255 Sim over Total pop = 0 Tick Complete = 7436
    Fitness = 591.799999999882
9256 Ai: 11 Gen: 62
9257 Sim Starting
9258 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 504.6000000000014
9259 Ai: 12 Gen: 62
9260 Sim Starting
9261 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1069.0000000000205
9262 Ai: 13 Gen: 62
9263 Sim Starting
9264 Sim over Total pop = 0 Tick Complete = 1867
    Fitness = 899.5000000000051
9265 Ai: 14 Gen: 62
9266 Sim Starting
9267 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
9268 Ai: 15 Gen: 62
9269 Sim Starting
9270 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 79.59999999999997
9271 Ai: 16 Gen: 62
9272 Sim Starting
9273 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2199.049999999846
9274 Ai: 17 Gen: 62
9275 Sim Starting
```

```
9276 Sim over Total pop = 0 Tick Complete = 7917
    Fitness = 1111.9999999999868
9277 Ai: 18 Gen: 62
9278 Sim Starting
9279 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 524.9
9280 Ai: 19 Gen: 62
9281 Sim Starting
9282 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 14.24999999999979
9283 Ai: 20 Gen: 62
9284 Sim Starting
9285 Sim over Total pop = 0 Tick Complete = 5885
    Fitness = 726.200000000013
9286 Ai: 21 Gen: 62
9287 Sim Starting
9288 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 102.60000000000018
9289 Ai: 22 Gen: 62
9290 Sim Starting
9291 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -113.0
9292 Ai: 23 Gen: 62
9293 Sim Starting
9294 Sim over Total pop = 0 Tick Complete = 5126
    Fitness = 371.5
9295 Ai: 24 Gen: 62
9296 Sim Starting
9297 Sim over Total pop = 0 Tick Complete = 6578
    Fitness = 418.700000000057
9298 Ai: 25 Gen: 62
9299 Sim Starting
9300 Sim over Total pop = 0 Tick Complete = 12045
    Fitness = 769.1000000000195
9301 Ai: 26 Gen: 62
9302 Sim Starting
9303 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = -38.1499999999973
9304 Ai: 27 Gen: 62
9305 Sim Starting
9306 Sim over Total pop = 0 Tick Complete = 17545
    Fitness = 2464.99999999799
9307 Ai: 28 Gen: 62
9308 Sim Starting
```

```
9309 Sim over Total pop = 0 Tick Complete = 18095
    Fitness = 3135.099999999695
9310 Ai: 29 Gen: 62
9311 Sim Starting
9312 Sim over Total pop = 0 Tick Complete = 3740
    Fitness = 523.000000000048
9313 Ai: 30 Gen: 62
9314 Sim Starting
9315 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2590.499999999777
9316 Ai: 31 Gen: 62
9317 Sim Starting
9318 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3801.499999999603
9319 Ai: 32 Gen: 62
9320 Sim Starting
9321 Sim over Total pop = 0 Tick Complete = 9729
    Fitness = 1017.100000000047
9322 Ai: 33 Gen: 62
9323 Sim Starting
9324 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9325 Ai: 34 Gen: 62
9326 Sim Starting
9327 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3338.7999999996755
9328 Ai: 35 Gen: 62
9329 Sim Starting
9330 Sim over Total pop = 0 Tick Complete = 15298
    Fitness = 1994.3499999999613
9331 Ai: 36 Gen: 62
9332 Sim Starting
9333 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1751.7000000000785
9334 Ai: 37 Gen: 62
9335 Sim Starting
9336 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
9337 Ai: 38 Gen: 62
9338 Sim Starting
9339 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2985.9999999997262
9340 Ai: 39 Gen: 62
9341 Sim Starting
```

```
9342 Sim over Total pop = 0 Tick Complete = 8434
    Fitness = 1179.7000000000014
9343 Ai: 40 Gen: 62
9344 Sim Starting
9345 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1769.7
9346 Ai: 41 Gen: 62
9347 Sim Starting
9348 Sim over Total pop = 0 Tick Complete = 4661
    Fitness = 703.199999999992
9349 Ai: 42 Gen: 62
9350 Sim Starting
9351 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2320.499999999824
9352 Ai: 43 Gen: 62
9353 Sim Starting
9354 Sim over Total pop = 0 Tick Complete = 5585
    Fitness = 733.0
9355 Ai: 44 Gen: 62
9356 Sim Starting
9357 Sim over Total pop = 0 Tick Complete = 7832
    Fitness = 1450.3500000000502
9358 Ai: 45 Gen: 62
9359 Sim Starting
9360 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 970.5999999999775
9361 Ai: 46 Gen: 62
9362 Sim Starting
9363 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2605.150000000202
9364 Ai: 47 Gen: 62
9365 Sim Starting
9366 Sim over Total pop = 0 Tick Complete = 19376
    Fitness = 2712.4000000000797
9367 Ai: 48 Gen: 62
9368 Sim Starting
9369 Sim over Total pop = 0 Tick Complete = 4719
    Fitness = 547.699999999992
9370 Ai: 49 Gen: 62
9371 Sim Starting
9372 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9373 Ai: 0 Gen: 63
9374 Sim Starting
```

```
9375 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 544.0000000000005
9376 Ai: 1 Gen: 63
9377 Sim Starting
9378 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 342.3999999999975
9379 Ai: 2 Gen: 63
9380 Sim Starting
9381 Sim over Total pop = 0 Tick Complete = 5918
    Fitness = 471.3499999999496
9382 Ai: 3 Gen: 63
9383 Sim Starting
9384 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 269.9000000000008
9385 Ai: 4 Gen: 63
9386 Sim Starting
9387 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -171.75
9388 Ai: 5 Gen: 63
9389 Sim Starting
9390 Sim over Total pop = 0 Tick Complete = 2420
    Fitness = 296.250000000017
9391 Ai: 6 Gen: 63
9392 Sim Starting
9393 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
9394 Ai: 7 Gen: 63
9395 Sim Starting
9396 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 217.6000000000025
9397 Ai: 8 Gen: 63
9398 Sim Starting
9399 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
9400 Ai: 9 Gen: 63
9401 Sim Starting
9402 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 207.3999999999998
9403 Ai: 10 Gen: 63
9404 Sim Starting
9405 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = 469.6999999999993
9406 Ai: 11 Gen: 63
9407 Sim Starting
```

```
9408 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 279.0000000000006
9409 Ai: 12 Gen: 63
9410 Sim Starting
9411 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 593.9499999999992
9412 Ai: 13 Gen: 63
9413 Sim Starting
9414 Sim over Total pop = 0 Tick Complete = 4191
    Fitness = 864.5500000000072
9415 Ai: 14 Gen: 63
9416 Sim Starting
9417 Sim over Total pop = 0 Tick Complete = 3751
    Fitness = 435.90000000000555
9418 Ai: 15 Gen: 63
9419 Sim Starting
9420 Sim over Total pop = 0 Tick Complete = 4829
    Fitness = 486.7000000000065
9421 Ai: 16 Gen: 63
9422 Sim Starting
9423 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 510.0
9424 Ai: 17 Gen: 63
9425 Sim Starting
9426 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 368.25
9427 Ai: 18 Gen: 63
9428 Sim Starting
9429 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1557.449999999947
9430 Ai: 19 Gen: 63
9431 Sim Starting
9432 Sim over Total pop = 0 Tick Complete = 2098
    Fitness = 232.9000000000002
9433 Ai: 20 Gen: 63
9434 Sim Starting
9435 Sim over Total pop = 0 Tick Complete = 8195
    Fitness = 643.6000000000151
9436 Ai: 21 Gen: 63
9437 Sim Starting
9438 Sim over Total pop = 0 Tick Complete = 2519
    Fitness = -27.0
9439 Ai: 22 Gen: 63
9440 Sim Starting
```

```
9441 Sim over Total pop = 0 Tick Complete = 3168
    Fitness = 215.60000000000093
9442 Ai: 23 Gen: 63
9443 Sim Starting
9444 Sim over Total pop = 0 Tick Complete = 6138
    Fitness = 903.5000000000169
9445 Ai: 24 Gen: 63
9446 Sim Starting
9447 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 156.5999999999997
9448 Ai: 25 Gen: 63
9449 Sim Starting
9450 Sim over Total pop = 0 Tick Complete = 3872
    Fitness = 380.5000000000233
9451 Ai: 26 Gen: 63
9452 Sim Starting
9453 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -94.0
9454 Ai: 27 Gen: 63
9455 Sim Starting
9456 Sim over Total pop = 0 Tick Complete = 7876
    Fitness = 465.4499999999453
9457 Ai: 28 Gen: 63
9458 Sim Starting
9459 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2355.999999998254
9460 Ai: 29 Gen: 63
9461 Sim Starting
9462 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 4136.99999999587
9463 Ai: 30 Gen: 63
9464 Sim Starting
9465 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
9466 Ai: 31 Gen: 63
9467 Sim Starting
9468 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9469 Ai: 32 Gen: 63
9470 Sim Starting
9471 Sim over Total pop = 0 Tick Complete = 2805
    Fitness = 468.2499999999545
9472 Ai: 33 Gen: 63
9473 Sim Starting
```

```
9474 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9475 Ai: 34 Gen: 63
9476 Sim Starting
9477 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9478 Ai: 35 Gen: 63
9479 Sim Starting
9480 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9481 Ai: 36 Gen: 63
9482 Sim Starting
9483 Sim over Total pop = 0 Tick Complete = 18535
    Fitness = 1003.0
9484 Ai: 37 Gen: 63
9485 Sim Starting
9486 Sim over Total pop = 0 Tick Complete = 15004
    Fitness = 1644.3999999999533
9487 Ai: 38 Gen: 63
9488 Sim Starting
9489 Sim over Total pop = 0 Tick Complete = 17941
    Fitness = 2416.6500000000538
9490 Ai: 39 Gen: 63
9491 Sim Starting
9492 Sim over Total pop = 0 Tick Complete = 4114
    Fitness = 789.500000000012
9493 Ai: 40 Gen: 63
9494 Sim Starting
9495 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1882.7000000000903
9496 Ai: 41 Gen: 63
9497 Sim Starting
9498 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
9499 Ai: 42 Gen: 63
9500 Sim Starting
9501 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
9502 Ai: 43 Gen: 63
9503 Sim Starting
9504 Sim over Total pop = 0 Tick Complete = 18238
    Fitness = 2907.099999999863
9505 Ai: 44 Gen: 63
9506 Sim Starting
```

```
9507 Sim over Total pop = 0 Tick Complete = 10725
    Fitness = 1267.0500000000306
9508 Ai: 45 Gen: 63
9509 Sim Starting
9510 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9511 Ai: 46 Gen: 63
9512 Sim Starting
9513 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9514 Ai: 47 Gen: 63
9515 Sim Starting
9516 Sim over Total pop = 0 Tick Complete = 9306
    Fitness = 1168.0000000000057
9517 Ai: 48 Gen: 63
9518 Sim Starting
9519 Sim over Total pop = 0 Tick Complete = 5401
    Fitness = 608.6499999999985
9520 Ai: 49 Gen: 63
9521 Sim Starting
9522 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9523 Ai: 50 Gen: 63
9524 Sim Starting
9525 Sim over Total pop = 0 Tick Complete = 6413
    Fitness = 934.1999999999832
9526 Ai: 0 Gen: 64
9527 Sim Starting
9528 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
9529 Ai: 1 Gen: 64
9530 Sim Starting
9531 Sim over Total pop = 0 Tick Complete = 18678
    Fitness = 1021.2000000000246
9532 Ai: 2 Gen: 64
9533 Sim Starting
9534 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 151.0
9535 Ai: 3 Gen: 64
9536 Sim Starting
9537 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -173.45
9538 Ai: 4 Gen: 64
9539 Sim Starting
```

```
9540 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
9541 Ai: 5 Gen: 64
9542 Sim Starting
9543 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
9544 Ai: 6 Gen: 64
9545 Sim Starting
9546 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 418.5
9547 Ai: 7 Gen: 64
9548 Sim Starting
9549 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
9550 Ai: 8 Gen: 64
9551 Sim Starting
9552 Sim over Total pop = 0 Tick Complete = 13211
    Fitness = 735.7500000000173
9553 Ai: 9 Gen: 64
9554 Sim Starting
9555 Sim over Total pop = 0 Tick Complete = 14531
    Fitness = 1490.1999999999396
9556 Ai: 10 Gen: 64
9557 Sim Starting
9558 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 164.8
9559 Ai: 11 Gen: 64
9560 Sim Starting
9561 Sim over Total pop = 0 Tick Complete = 627
    Fitness = -164.95
9562 Ai: 12 Gen: 64
9563 Sim Starting
9564 Sim over Total pop = 0 Tick Complete = 2695
    Fitness = 405.1499999999844
9565 Ai: 13 Gen: 64
9566 Sim Starting
9567 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 264.0
9568 Ai: 14 Gen: 64
9569 Sim Starting
9570 Sim over Total pop = 0 Tick Complete = 2189
    Fitness = 782.6000000000037
9571 Ai: 15 Gen: 64
9572 Sim Starting
```

```
9573 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -137.85
9574 Ai: 16 Gen: 64
9575 Sim Starting
9576 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 494.0000000000034
9577 Ai: 17 Gen: 64
9578 Sim Starting
9579 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 59.64999999999999
9580 Ai: 18 Gen: 64
9581 Sim Starting
9582 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
9583 Ai: 19 Gen: 64
9584 Sim Starting
9585 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2470.499999998076
9586 Ai: 20 Gen: 64
9587 Sim Starting
9588 Sim over Total pop = 0 Tick Complete = 14594
    Fitness = 756.299999999832
9589 Ai: 21 Gen: 64
9590 Sim Starting
9591 Sim over Total pop = 0 Tick Complete = 15345
    Fitness = 1643.60000000007
9592 Ai: 22 Gen: 64
9593 Sim Starting
9594 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 429.249999999999
9595 Ai: 23 Gen: 64
9596 Sim Starting
9597 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -157.0
9598 Ai: 24 Gen: 64
9599 Sim Starting
9600 Sim over Total pop = 0 Tick Complete = 8107
    Fitness = 419.05
9601 Ai: 25 Gen: 64
9602 Sim Starting
9603 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9604 Ai: 26 Gen: 64
9605 Sim Starting
```

```
9606 Sim over Total pop = 0 Tick Complete = 7117
    Fitness = 718.599999999992
9607 Ai: 27 Gen: 64
9608 Sim Starting
9609 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9610 Ai: 28 Gen: 64
9611 Sim Starting
9612 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1957.799999999086
9613 Ai: 29 Gen: 64
9614 Sim Starting
9615 Sim over Total pop = 0 Tick Complete = 5046
    Fitness = 675.900000000087
9616 Ai: 30 Gen: 64
9617 Sim Starting
9618 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2260.499999998367
9619 Ai: 31 Gen: 64
9620 Sim Starting
9621 Sim over Total pop = 0 Tick Complete = 12383
    Fitness = 1496.500000000623
9622 Ai: 32 Gen: 64
9623 Sim Starting
9624 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 305.1499999999884
9625 Ai: 33 Gen: 64
9626 Sim Starting
9627 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9628 Ai: 34 Gen: 64
9629 Sim Starting
9630 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.100000000209
9631 Ai: 35 Gen: 64
9632 Sim Starting
9633 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 251.0
9634 Ai: 36 Gen: 64
9635 Sim Starting
9636 Sim over Total pop = 0 Tick Complete = 9570
    Fitness = 412.5
9637 Ai: 37 Gen: 64
9638 Sim Starting
```

```
9639 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9640 Ai: 38 Gen: 64
9641 Sim Starting
9642 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2385.99999999817
9643 Ai: 39 Gen: 64
9644 Sim Starting
9645 Sim over Total pop = 0 Tick Complete = 6146
    Fitness = 634.6999999999915
9646 Ai: 40 Gen: 64
9647 Sim Starting
9648 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9649 Ai: 41 Gen: 64
9650 Sim Starting
9651 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.8
9652 Ai: 42 Gen: 64
9653 Sim Starting
9654 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9655 Ai: 43 Gen: 64
9656 Sim Starting
9657 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9658 Ai: 44 Gen: 64
9659 Sim Starting
9660 Sim over Total pop = 0 Tick Complete = 12353
    Fitness = 1256.499999999707
9661 Ai: 45 Gen: 64
9662 Sim Starting
9663 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.499999997194
9664 Ai: 46 Gen: 64
9665 Sim Starting
9666 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2612.09999999784
9667 Ai: 47 Gen: 64
9668 Sim Starting
9669 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1896.1500000000995
9670 Ai: 48 Gen: 64
9671 Sim Starting
```

```
9672 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2770.6999999997483
9673 Ai: 49 Gen: 64
9674 Sim Starting
9675 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2087.749999999866
9676 Ai: 50 Gen: 64
9677 Sim Starting
9678 Sim over Total pop = 0 Tick Complete = 3043
    Fitness = 8.4999999999999
9679 Ai: 0 Gen: 65
9680 Sim Starting
9681 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 214.5
9682 Ai: 1 Gen: 65
9683 Sim Starting
9684 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 212.5
9685 Ai: 2 Gen: 65
9686 Sim Starting
9687 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 147.25000000000014
9688 Ai: 3 Gen: 65
9689 Sim Starting
9690 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 389.25
9691 Ai: 4 Gen: 65
9692 Sim Starting
9693 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 657.2500000000013
9694 Ai: 5 Gen: 65
9695 Sim Starting
9696 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 237.5
9697 Ai: 6 Gen: 65
9698 Sim Starting
9699 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
9700 Ai: 7 Gen: 65
9701 Sim Starting
9702 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
9703 Ai: 8 Gen: 65
9704 Sim Starting
```

```
9705 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
9706 Ai: 9 Gen: 65
9707 Sim Starting
9708 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
9709 Ai: 10 Gen: 65
9710 Sim Starting
9711 Sim over Total pop = 0 Tick Complete = 4301
    Fitness = 369.700000000045
9712 Ai: 11 Gen: 65
9713 Sim Starting
9714 Sim over Total pop = 0 Tick Complete = 4378
    Fitness = 452.95000000000334
9715 Ai: 12 Gen: 65
9716 Sim Starting
9717 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1926.6499999999498
9718 Ai: 13 Gen: 65
9719 Sim Starting
9720 Sim over Total pop = 0 Tick Complete = 569
    Fitness = -128.0
9721 Ai: 14 Gen: 65
9722 Sim Starting
9723 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 8.6500000000012
9724 Ai: 15 Gen: 65
9725 Sim Starting
9726 Sim over Total pop = 0 Tick Complete = 7711
    Fitness = 691.2500000000148
9727 Ai: 16 Gen: 65
9728 Sim Starting
9729 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 404.949999999999
9730 Ai: 17 Gen: 65
9731 Sim Starting
9732 Sim over Total pop = 0 Tick Complete = 803
    Fitness = -78.4000000000006
9733 Ai: 18 Gen: 65
9734 Sim Starting
9735 Sim over Total pop = 0 Tick Complete = 968
    Fitness = -74.9999999999997
9736 Ai: 19 Gen: 65
9737 Sim Starting
```

```
9738 Sim over Total pop = 0 Tick Complete = 3058
    Fitness = 62.50000000000051
9739 Ai: 20 Gen: 65
9740 Sim Starting
9741 Sim over Total pop = 0 Tick Complete = 737
    Fitness = -161.64999999999998
9742 Ai: 21 Gen: 65
9743 Sim Starting
9744 Sim over Total pop = 0 Tick Complete = 6754
    Fitness = 588.700000000083
9745 Ai: 22 Gen: 65
9746 Sim Starting
9747 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 227.0
9748 Ai: 23 Gen: 65
9749 Sim Starting
9750 Sim over Total pop = 0 Tick Complete = 4521
    Fitness = 529.400000000025
9751 Ai: 24 Gen: 65
9752 Sim Starting
9753 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 169.600000000002
9754 Ai: 25 Gen: 65
9755 Sim Starting
9756 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 528.3
9757 Ai: 26 Gen: 65
9758 Sim Starting
9759 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3286.599999996848
9760 Ai: 27 Gen: 65
9761 Sim Starting
9762 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3463.699999997797
9763 Ai: 28 Gen: 65
9764 Sim Starting
9765 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.400000000209
9766 Ai: 29 Gen: 65
9767 Sim Starting
9768 Sim over Total pop = 0 Tick Complete = 12597
    Fitness = 1453.3000000000388
9769 Ai: 30 Gen: 65
9770 Sim Starting
```

```
9771 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 3286.299999999907
9772 Ai: 31 Gen: 65
9773 Sim Starting
9774 Sim over Total pop = 0 Tick Complete = 4518
    Fitness = 505.2500000000023
9775 Ai: 32 Gen: 65
9776 Sim Starting
9777 Sim over Total pop = 0 Tick Complete = 9845
    Fitness = 1245.5
9778 Ai: 33 Gen: 65
9779 Sim Starting
9780 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1734.1999999999148
9781 Ai: 34 Gen: 65
9782 Sim Starting
9783 Sim over Total pop = 0 Tick Complete = 16739
    Fitness = 1650.0499999999508
9784 Ai: 35 Gen: 65
9785 Sim Starting
9786 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
9787 Ai: 36 Gen: 65
9788 Sim Starting
9789 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2404.699999998447
9790 Ai: 37 Gen: 65
9791 Sim Starting
9792 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.499999997194
9793 Ai: 38 Gen: 65
9794 Sim Starting
9795 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2345.499999998254
9796 Ai: 39 Gen: 65
9797 Sim Starting
9798 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3621.499999996303
9799 Ai: 40 Gen: 65
9800 Sim Starting
9801 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2115.999999998618
9802 Ai: 41 Gen: 65
9803 Sim Starting
```

```
9804 Sim over Total pop = 0 Tick Complete = 488
    Fitness = -205.0
9805 Ai: 42 Gen: 65
9806 Sim Starting
9807 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2299.8000000001593
9808 Ai: 43 Gen: 65
9809 Sim Starting
9810 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
9811 Ai: 44 Gen: 65
9812 Sim Starting
9813 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9814 Ai: 45 Gen: 65
9815 Sim Starting
9816 Sim over Total pop = 0 Tick Complete = 5830
    Fitness = 336.800000000001
9817 Ai: 46 Gen: 65
9818 Sim Starting
9819 Sim over Total pop = 0 Tick Complete = 15609
    Fitness = 482.0
9820 Ai: 47 Gen: 65
9821 Sim Starting
9822 Sim over Total pop = 0 Tick Complete = 11044
    Fitness = 1693.650000000001
9823 Ai: 48 Gen: 65
9824 Sim Starting
9825 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 970.499999999775
9826 Ai: 49 Gen: 65
9827 Sim Starting
9828 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
9829 Ai: 0 Gen: 66
9830 Sim Starting
9831 Sim over Total pop = 0 Tick Complete = 3542
    Fitness = 901.299999999981
9832 Ai: 1 Gen: 66
9833 Sim Starting
9834 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 462.7500000000001
9835 Ai: 2 Gen: 66
9836 Sim Starting
```

```
9837 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
9838 Ai: 3 Gen: 66
9839 Sim Starting
9840 Sim over Total pop = 0 Tick Complete = 9075
    Fitness = 429.7499999999947
9841 Ai: 4 Gen: 66
9842 Sim Starting
9843 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 240.0
9844 Ai: 5 Gen: 66
9845 Sim Starting
9846 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 201.55000000000052
9847 Ai: 6 Gen: 66
9848 Sim Starting
9849 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
9850 Ai: 7 Gen: 66
9851 Sim Starting
9852 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 185.0
9853 Ai: 8 Gen: 66
9854 Sim Starting
9855 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 205.8999999999986
9856 Ai: 9 Gen: 66
9857 Sim Starting
9858 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -125.5
9859 Ai: 10 Gen: 66
9860 Sim Starting
9861 Sim over Total pop = 0 Tick Complete = 836
    Fitness = -156.7500000000003
9862 Ai: 11 Gen: 66
9863 Sim Starting
9864 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 241.50000000000136
9865 Ai: 12 Gen: 66
9866 Sim Starting
9867 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 199.0
9868 Ai: 13 Gen: 66
9869 Sim Starting
```

```
9870 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 156.0
9871 Ai: 14 Gen: 66
9872 Sim Starting
9873 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -193.85
9874 Ai: 15 Gen: 66
9875 Sim Starting
9876 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1252.8999999999935
9877 Ai: 16 Gen: 66
9878 Sim Starting
9879 Sim over Total pop = 0 Tick Complete = 1592
    Fitness = 17.1000000000002
9880 Ai: 17 Gen: 66
9881 Sim Starting
9882 Sim over Total pop = 0 Tick Complete = 2992
    Fitness = 335.60000000000116
9883 Ai: 18 Gen: 66
9884 Sim Starting
9885 Sim over Total pop = 0 Tick Complete = 13970
    Fitness = 1077.3999999999846
9886 Ai: 19 Gen: 66
9887 Sim Starting
9888 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 329.5
9889 Ai: 20 Gen: 66
9890 Sim Starting
9891 Sim over Total pop = 0 Tick Complete = 10967
    Fitness = 433.8499999999954
9892 Ai: 21 Gen: 66
9893 Sim Starting
9894 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1224.6999999999962
9895 Ai: 22 Gen: 66
9896 Sim Starting
9897 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2655.999999997763
9898 Ai: 23 Gen: 66
9899 Sim Starting
9900 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2470.4999999998013
9901 Ai: 24 Gen: 66
9902 Sim Starting
```

```
9903 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2804.749999999962
9904 Ai: 25 Gen: 66
9905 Sim Starting
9906 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3015.999999997226
9907 Ai: 26 Gen: 66
9908 Sim Starting
9909 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2205.599999999894
9910 Ai: 27 Gen: 66
9911 Sim Starting
9912 Sim over Total pop = 0 Tick Complete = 14876
    Fitness = 2998.949999999933
9913 Ai: 28 Gen: 66
9914 Sim Starting
9915 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9916 Ai: 29 Gen: 66
9917 Sim Starting
9918 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9919 Ai: 30 Gen: 66
9920 Sim Starting
9921 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 278.1999999999965
9922 Ai: 31 Gen: 66
9923 Sim Starting
9924 Sim over Total pop = 0 Tick Complete = 6699
    Fitness = 690.749999999999
9925 Ai: 32 Gen: 66
9926 Sim Starting
9927 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9928 Ai: 33 Gen: 66
9929 Sim Starting
9930 Sim over Total pop = 0 Tick Complete = 12364
    Fitness = 1406.200000000034
9931 Ai: 34 Gen: 66
9932 Sim Starting
9933 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.9500000000211
9934 Ai: 35 Gen: 66
9935 Sim Starting
```

```
9936 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 993.350000000026
9937 Ai: 36 Gen: 66
9938 Sim Starting
9939 Sim over Total pop = 0 Tick Complete = 7111
    Fitness = 1075.4500000000123
9940 Ai: 37 Gen: 66
9941 Sim Starting
9942 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9943 Ai: 38 Gen: 66
9944 Sim Starting
9945 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9946 Ai: 39 Gen: 66
9947 Sim Starting
9948 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
9949 Ai: 40 Gen: 66
9950 Sim Starting
9951 Sim over Total pop = 0 Tick Complete = 16489
    Fitness = 2181.699999999607
9952 Ai: 41 Gen: 66
9953 Sim Starting
9954 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
9955 Ai: 42 Gen: 66
9956 Sim Starting
9957 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3602.799999999633
9958 Ai: 43 Gen: 66
9959 Sim Starting
9960 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
9961 Ai: 44 Gen: 66
9962 Sim Starting
9963 Sim over Total pop = 0 Tick Complete = 9669
    Fitness = 1362.2000000000355
9964 Ai: 45 Gen: 66
9965 Sim Starting
9966 Sim over Total pop = 0 Tick Complete = 19987
    Fitness = 2575.3999999999714
9967 Ai: 46 Gen: 66
9968 Sim Starting
```

```
9969 Sim over Total pop = 0 Tick Complete = 6699
    Fitness = 934.3499999999848
9970 Ai: 47 Gen: 66
9971 Sim Starting
9972 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1212.1499999999996
9973 Ai: 48 Gen: 66
9974 Sim Starting
9975 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
9976 Ai: 49 Gen: 66
9977 Sim Starting
9978 Sim over Total pop = 0 Tick Complete = 7018
    Fitness = 1152.849999999998
9979 Ai: 0 Gen: 67
9980 Sim Starting
9981 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 464.6999999999996
9982 Ai: 1 Gen: 67
9983 Sim Starting
9984 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 240.0
9985 Ai: 2 Gen: 67
9986 Sim Starting
9987 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
9988 Ai: 3 Gen: 67
9989 Sim Starting
9990 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -106.4
9991 Ai: 4 Gen: 67
9992 Sim Starting
9993 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
9994 Ai: 5 Gen: 67
9995 Sim Starting
9996 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 377.5
9997 Ai: 6 Gen: 67
9998 Sim Starting
9999 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 207.65000000000015
10000 Ai: 7 Gen: 67
10001 Sim Starting
```

```
10002 Sim over Total pop = 0 Tick Complete = 6512
    Fitness = 537.2499999999998
10003 Ai: 8 Gen: 67
10004 Sim Starting
10005 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 306.10000000000093
10006 Ai: 9 Gen: 67
10007 Sim Starting
10008 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = -57.1999999999998
10009 Ai: 10 Gen: 67
10010 Sim Starting
10011 Sim over Total pop = 0 Tick Complete = 15345
    Fitness = 1472.199999999953
10012 Ai: 11 Gen: 67
10013 Sim Starting
10014 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = -9.500000000000005
10015 Ai: 12 Gen: 67
10016 Sim Starting
10017 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 135.75
10018 Ai: 13 Gen: 67
10019 Sim Starting
10020 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 136.5
10021 Ai: 14 Gen: 67
10022 Sim Starting
10023 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -149.0
10024 Ai: 15 Gen: 67
10025 Sim Starting
10026 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = -144.50000000000057
10027 Ai: 16 Gen: 67
10028 Sim Starting
10029 Sim over Total pop = 0 Tick Complete = 18381
    Fitness = 1853.1000000001063
10030 Ai: 17 Gen: 67
10031 Sim Starting
10032 Sim over Total pop = 0 Tick Complete = 3421
    Fitness = 255.2499999999932
10033 Ai: 18 Gen: 67
10034 Sim Starting
```

```
10035 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 155.0
10036 Ai: 19 Gen: 67
10037 Sim Starting
10038 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 37.5
10039 Ai: 20 Gen: 67
10040 Sim Starting
10041 Sim over Total pop = 0 Tick Complete = 946
    Fitness = -86.44999999999992
10042 Ai: 21 Gen: 67
10043 Sim Starting
10044 Sim over Total pop = 0 Tick Complete = 16170
    Fitness = 1674.7500000000707
10045 Ai: 22 Gen: 67
10046 Sim Starting
10047 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2535.9999999997945
10048 Ai: 23 Gen: 67
10049 Sim Starting
10050 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2771.699999999759
10051 Ai: 24 Gen: 67
10052 Sim Starting
10053 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 4179.499999999612
10054 Ai: 25 Gen: 67
10055 Sim Starting
10056 Sim over Total pop = 0 Tick Complete = 1322
    Fitness = 451.0000000000045
10057 Ai: 26 Gen: 67
10058 Sim Starting
10059 Sim over Total pop = 0 Tick Complete = 2519
    Fitness = 627.0
10060 Ai: 27 Gen: 67
10061 Sim Starting
10062 Sim over Total pop = 0 Tick Complete = 6050
    Fitness = 772.750000000011
10063 Ai: 28 Gen: 67
10064 Sim Starting
10065 Sim over Total pop = 0 Tick Complete = 14707
    Fitness = 1976.9000000000274
10066 Ai: 29 Gen: 67
10067 Sim Starting
```

```
10068 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3638.199999999628
10069 Ai: 30 Gen: 67
10070 Sim Starting
10071 Sim over Total pop = 0 Tick Complete = 12317
    Fitness = 1387.50000000003
10072 Ai: 31 Gen: 67
10073 Sim Starting
10074 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2295.9999999998345
10075 Ai: 32 Gen: 67
10076 Sim Starting
10077 Sim over Total pop = 0 Tick Complete = 17399
    Fitness = 2080.10000000012
10078 Ai: 33 Gen: 67
10079 Sim Starting
10080 Sim over Total pop = 0 Tick Complete = 11858
    Fitness = 1799.3999999999871
10081 Ai: 34 Gen: 67
10082 Sim Starting
10083 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10084 Ai: 35 Gen: 67
10085 Sim Starting
10086 Sim over Total pop = 0 Tick Complete = 17193
    Fitness = 1938.8499999999776
10087 Ai: 36 Gen: 67
10088 Sim Starting
10089 Sim over Total pop = 0 Tick Complete = 7513
    Fitness = 739.75
10090 Ai: 37 Gen: 67
10091 Sim Starting
10092 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10093 Ai: 38 Gen: 67
10094 Sim Starting
10095 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -203.9
10096 Ai: 39 Gen: 67
10097 Sim Starting
10098 Sim over Total pop = 0 Tick Complete = 10670
    Fitness = 861.7999999999831
10099 Ai: 40 Gen: 67
10100 Sim Starting
```

```
10101 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2270.9000000001583
10102 Ai: 41 Gen: 67
10103 Sim Starting
10104 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10105 Ai: 42 Gen: 67
10106 Sim Starting
10107 Sim over Total pop = 0 Tick Complete = 19503
    Fitness = 1864.8500000000852
10108 Ai: 43 Gen: 67
10109 Sim Starting
10110 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 609.5
10111 Ai: 44 Gen: 67
10112 Sim Starting
10113 Sim over Total pop = 0 Tick Complete = 7832
    Fitness = 948.9000000000119
10114 Ai: 45 Gen: 67
10115 Sim Starting
10116 Sim over Total pop = 0 Tick Complete = 14245
    Fitness = 1769.4000000000956
10117 Ai: 46 Gen: 67
10118 Sim Starting
10119 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -137.5
10120 Ai: 47 Gen: 67
10121 Sim Starting
10122 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10123 Ai: 48 Gen: 67
10124 Sim Starting
10125 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10126 Ai: 49 Gen: 67
10127 Sim Starting
10128 Sim over Total pop = 0 Tick Complete = 4488
    Fitness = 830.2500000000007
10129 Ai: 0 Gen: 68
10130 Sim Starting
10131 Sim over Total pop = 0 Tick Complete = 3916
    Fitness = 721.0
10132 Ai: 1 Gen: 68
10133 Sim Starting
```

```
10134 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 500.2499999999993
10135 Ai: 2 Gen: 68
10136 Sim Starting
10137 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 252.95000000000005
10138 Ai: 3 Gen: 68
10139 Sim Starting
10140 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
10141 Ai: 4 Gen: 68
10142 Sim Starting
10143 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 107.20000000000005
10144 Ai: 5 Gen: 68
10145 Sim Starting
10146 Sim over Total pop = 0 Tick Complete = 6468
    Fitness = 470.25
10147 Ai: 6 Gen: 68
10148 Sim Starting
10149 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 190.5
10150 Ai: 7 Gen: 68
10151 Sim Starting
10152 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 241.6500000000002
10153 Ai: 8 Gen: 68
10154 Sim Starting
10155 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 423.7000000000005
10156 Ai: 9 Gen: 68
10157 Sim Starting
10158 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 387.05000000000035
10159 Ai: 10 Gen: 68
10160 Sim Starting
10161 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1920.249999999891
10162 Ai: 11 Gen: 68
10163 Sim Starting
10164 Sim over Total pop = 0 Tick Complete = 7202
    Fitness = 635.0500000000001
10165 Ai: 12 Gen: 68
10166 Sim Starting
```

```
10167 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 515.35000000000006
10168 Ai: 13 Gen: 68
10169 Sim Starting
10170 Sim over Total pop = 0 Tick Complete = 12639
    Fitness = 1293.9999999999802
10171 Ai: 14 Gen: 68
10172 Sim Starting
10173 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 70.9000000000018
10174 Ai: 15 Gen: 68
10175 Sim Starting
10176 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -133.65
10177 Ai: 16 Gen: 68
10178 Sim Starting
10179 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 233.35000000000002
10180 Ai: 17 Gen: 68
10181 Sim Starting
10182 Sim over Total pop = 0 Tick Complete = 2673
    Fitness = 155.0999999999999
10183 Ai: 18 Gen: 68
10184 Sim Starting
10185 Sim over Total pop = 0 Tick Complete = 8250
    Fitness = 662.3500000000145
10186 Ai: 19 Gen: 68
10187 Sim Starting
10188 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1284.049999999987
10189 Ai: 20 Gen: 68
10190 Sim Starting
10191 Sim over Total pop = 0 Tick Complete = 12636
    Fitness = 1422.5499999999633
10192 Ai: 21 Gen: 68
10193 Sim Starting
10194 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 633.8500000000003
10195 Ai: 22 Gen: 68
10196 Sim Starting
10197 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3052.0999999997034
10198 Ai: 23 Gen: 68
10199 Sim Starting
```

```
10200 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
10201 Ai: 24 Gen: 68
10202 Sim Starting
10203 Sim over Total pop = 0 Tick Complete = 632
    Fitness = 350.0
10204 Ai: 25 Gen: 68
10205 Sim Starting
10206 Sim over Total pop = 0 Tick Complete = 18282
    Fitness = 2623.9999999998795
10207 Ai: 26 Gen: 68
10208 Sim Starting
10209 Sim over Total pop = 0 Tick Complete = 16258
    Fitness = 843.0
10210 Ai: 27 Gen: 68
10211 Sim Starting
10212 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 1304.6000000000163
10213 Ai: 28 Gen: 68
10214 Sim Starting
10215 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2680.4999999997704
10216 Ai: 29 Gen: 68
10217 Sim Starting
10218 Sim over Total pop = 0 Tick Complete = 4375
    Fitness = 622.0000000000018
10219 Ai: 30 Gen: 68
10220 Sim Starting
10221 Sim over Total pop = 0 Tick Complete = 16995
    Fitness = 1682.149999999921
10222 Ai: 31 Gen: 68
10223 Sim Starting
10224 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2470.499999998013
10225 Ai: 32 Gen: 68
10226 Sim Starting
10227 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2565.49999999992
10228 Ai: 33 Gen: 68
10229 Sim Starting
10230 Sim over Total pop = 0 Tick Complete = 1138
    Fitness = -96.4999999999972
10231 Ai: 34 Gen: 68
10232 Sim Starting
```

```
10233 Sim over Total pop = 0 Tick Complete = 5632
    Fitness = 1006.95000000000196
10234 Ai: 35 Gen: 68
10235 Sim Starting
10236 Sim over Total pop = 0 Tick Complete = 14520
    Fitness = 1556.7000000000492
10237 Ai: 36 Gen: 68
10238 Sim Starting
10239 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2476.79999999983
10240 Ai: 37 Gen: 68
10241 Sim Starting
10242 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10243 Ai: 38 Gen: 68
10244 Sim Starting
10245 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1058.8000000000293
10246 Ai: 39 Gen: 68
10247 Sim Starting
10248 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1035.0
10249 Ai: 40 Gen: 68
10250 Sim Starting
10251 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2320.4999999998213
10252 Ai: 41 Gen: 68
10253 Sim Starting
10254 Sim over Total pop = 0 Tick Complete = 607
    Fitness = 142.0
10255 Ai: 42 Gen: 68
10256 Sim Starting
10257 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2385.9999999998217
10258 Ai: 43 Gen: 68
10259 Sim Starting
10260 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2205.999999999848
10261 Ai: 44 Gen: 68
10262 Sim Starting
10263 Sim over Total pop = 0 Tick Complete = 19794
    Fitness = 1217.8500000000045
10264 Ai: 45 Gen: 68
10265 Sim Starting
```

```
10266 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2560.4999999997876
10267 Ai: 46 Gen: 68
10268 Sim Starting
10269 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3290.0999999998703
10270 Ai: 47 Gen: 68
10271 Sim Starting
10272 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2625.999999999781
10273 Ai: 48 Gen: 68
10274 Sim Starting
10275 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
10276 Ai: 49 Gen: 68
10277 Sim Starting
10278 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
10279 Ai: 0 Gen: 69
10280 Sim Starting
10281 Sim over Total pop = 0 Tick Complete = 17553
    Fitness = 1884.2499999998925
10282 Ai: 1 Gen: 69
10283 Sim Starting
10284 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1653.4999999999309
10285 Ai: 2 Gen: 69
10286 Sim Starting
10287 Sim over Total pop = 0 Tick Complete = 2791
    Fitness = -35.99999999999396
10288 Ai: 3 Gen: 69
10289 Sim Starting
10290 Sim over Total pop = 0 Tick Complete = 13189
    Fitness = 1339.999999999734
10291 Ai: 4 Gen: 69
10292 Sim Starting
10293 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 647.5999999999989
10294 Ai: 5 Gen: 69
10295 Sim Starting
10296 Sim over Total pop = 0 Tick Complete = 4312
    Fitness = 431.75000000000296
10297 Ai: 6 Gen: 69
10298 Sim Starting
```

```
10299 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 954.5000000000246
10300 Ai: 7 Gen: 69
10301 Sim Starting
10302 Sim over Total pop = 0 Tick Complete = 1823
    Fitness = 334.2499999999979
10303 Ai: 8 Gen: 69
10304 Sim Starting
10305 Sim over Total pop = 0 Tick Complete = 4972
    Fitness = 962.0500000000028
10306 Ai: 9 Gen: 69
10307 Sim Starting
10308 Sim over Total pop = 0 Tick Complete = 7920
    Fitness = 919.8999999999811
10309 Ai: 10 Gen: 69
10310 Sim Starting
10311 Sim over Total pop = 0 Tick Complete = 2695
    Fitness = 106.90000000000023
10312 Ai: 11 Gen: 69
10313 Sim Starting
10314 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 1204.3000000000008
10315 Ai: 12 Gen: 69
10316 Sim Starting
10317 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2655.999999999777
10318 Ai: 13 Gen: 69
10319 Sim Starting
10320 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2839.800000000067
10321 Ai: 14 Gen: 69
10322 Sim Starting
10323 Sim over Total pop = 0 Tick Complete = 577
    Fitness = -175.5
10324 Ai: 15 Gen: 69
10325 Sim Starting
10326 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1692.999999999523
10327 Ai: 16 Gen: 69
10328 Sim Starting
10329 Sim over Total pop = 0 Tick Complete = 18642
    Fitness = 1789.3999999998932
10330 Ai: 17 Gen: 69
10331 Sim Starting
```

```
10332 Sim over Total pop = 0 Tick Complete = 7348
    Fitness = 581.4999999999989
10333 Ai: 18 Gen: 69
10334 Sim Starting
10335 Sim over Total pop = 0 Tick Complete = 4268
    Fitness = 869.6500000000135
10336 Ai: 19 Gen: 69
10337 Sim Starting
10338 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10339 Ai: 20 Gen: 69
10340 Sim Starting
10341 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10342 Ai: 21 Gen: 69
10343 Sim Starting
10344 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10345 Ai: 22 Gen: 69
10346 Sim Starting
10347 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2629.049999999785
10348 Ai: 23 Gen: 69
10349 Sim Starting
10350 Sim over Total pop = 0 Tick Complete = 19291
    Fitness = 1160.399999999676
10351 Ai: 24 Gen: 69
10352 Sim Starting
10353 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10354 Ai: 25 Gen: 69
10355 Sim Starting
10356 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2448.650000000183
10357 Ai: 26 Gen: 69
10358 Sim Starting
10359 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10360 Ai: 27 Gen: 69
10361 Sim Starting
10362 Sim over Total pop = 0 Tick Complete = 4444
    Fitness = 203.25000000000097
10363 Ai: 28 Gen: 69
10364 Sim Starting
```

```
10365 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3285.999999999679
10366 Ai: 29 Gen: 69
10367 Sim Starting
10368 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1965.999999999838
10369 Ai: 30 Gen: 69
10370 Sim Starting
10371 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2265.999999999839
10372 Ai: 31 Gen: 69
10373 Sim Starting
10374 Sim over Total pop = 0 Tick Complete = 5678
    Fitness = 1124.1999999999898
10375 Ai: 32 Gen: 69
10376 Sim Starting
10377 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -120.0
10378 Ai: 33 Gen: 69
10379 Sim Starting
10380 Sim over Total pop = 0 Tick Complete = 12287
    Fitness = 1727.799999999968
10381 Ai: 34 Gen: 69
10382 Sim Starting
10383 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3356.0999999996707
10384 Ai: 35 Gen: 69
10385 Sim Starting
10386 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2165.39999999984
10387 Ai: 36 Gen: 69
10388 Sim Starting
10389 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2034.3500000001195
10390 Ai: 37 Gen: 69
10391 Sim Starting
10392 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2392.10000000018
10393 Ai: 38 Gen: 69
10394 Sim Starting
10395 Sim over Total pop = 0 Tick Complete = 505
    Fitness = -203.65
10396 Ai: 39 Gen: 69
10397 Sim Starting
```

```
10398 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10399 Ai: 40 Gen: 69
10400 Sim Starting
10401 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3997.599999999825
10402 Ai: 41 Gen: 69
10403 Sim Starting
10404 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10405 Ai: 42 Gen: 69
10406 Sim Starting
10407 Sim over Total pop = 0 Tick Complete = 19107
    Fitness = 1735.6000000000759
10408 Ai: 43 Gen: 69
10409 Sim Starting
10410 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2205.9999999998486
10411 Ai: 44 Gen: 69
10412 Sim Starting
10413 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2805.9999999997535
10414 Ai: 45 Gen: 69
10415 Sim Starting
10416 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
10417 Ai: 46 Gen: 69
10418 Sim Starting
10419 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2629.249999999781
10420 Ai: 47 Gen: 69
10421 Sim Starting
10422 Sim over Total pop = 0 Tick Complete = 13793
    Fitness = 2266.25
10423 Ai: 48 Gen: 69
10424 Sim Starting
10425 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10426 Ai: 0 Gen: 70
10427 Sim Starting
10428 Sim over Total pop = 0 Tick Complete = 18106
    Fitness = 1934.3499999998826
10429 Ai: 1 Gen: 70
10430 Sim Starting
```

```
10431 Sim over Total pop = 0 Tick Complete = 13739
    Fitness = 848.9000000000224
10432 Ai: 2 Gen: 70
10433 Sim Starting
10434 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 380.7999999999997
10435 Ai: 3 Gen: 70
10436 Sim Starting
10437 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = -144.3
10438 Ai: 4 Gen: 70
10439 Sim Starting
10440 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 248.50000000000108
10441 Ai: 5 Gen: 70
10442 Sim Starting
10443 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 156.49999999999977
10444 Ai: 6 Gen: 70
10445 Sim Starting
10446 Sim over Total pop = 0 Tick Complete = 17050
    Fitness = 1911.5999999998864
10447 Ai: 7 Gen: 70
10448 Sim Starting
10449 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 176.5
10450 Ai: 8 Gen: 70
10451 Sim Starting
10452 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 315.10000000000065
10453 Ai: 9 Gen: 70
10454 Sim Starting
10455 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1134.7000000000103
10456 Ai: 10 Gen: 70
10457 Sim Starting
10458 Sim over Total pop = 0 Tick Complete = 1856
    Fitness = 442.25
10459 Ai: 11 Gen: 70
10460 Sim Starting
10461 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
10462 Ai: 12 Gen: 70
10463 Sim Starting
```

```
10464 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
10465 Ai: 13 Gen: 70
10466 Sim Starting
10467 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1295.9499999999844
10468 Ai: 14 Gen: 70
10469 Sim Starting
10470 Sim over Total pop = 0 Tick Complete = 574
    Fitness = 140.5
10471 Ai: 15 Gen: 70
10472 Sim Starting
10473 Sim over Total pop = 0 Tick Complete = 10219
    Fitness = 1487.3500000000606
10474 Ai: 16 Gen: 70
10475 Sim Starting
10476 Sim over Total pop = 0 Tick Complete = 3410
    Fitness = 768.7500000000035
10477 Ai: 17 Gen: 70
10478 Sim Starting
10479 Sim over Total pop = 0 Tick Complete = 9856
    Fitness = 305.7499999999994
10480 Ai: 18 Gen: 70
10481 Sim Starting
10482 Sim over Total pop = 0 Tick Complete = 4840
    Fitness = 496.4999999999998
10483 Ai: 19 Gen: 70
10484 Sim Starting
10485 Sim over Total pop = 0 Tick Complete = 8569
    Fitness = 962.3000000000259
10486 Ai: 20 Gen: 70
10487 Sim Starting
10488 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 339.9499999999991
10489 Ai: 21 Gen: 70
10490 Sim Starting
10491 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 882.650000000021
10492 Ai: 22 Gen: 70
10493 Sim Starting
10494 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2976.8999999997286
10495 Ai: 23 Gen: 70
10496 Sim Starting
```

```
10497 Sim over Total pop = 0 Tick Complete = 577
    Fitness = -160.0
10498 Ai: 24 Gen: 70
10499 Sim Starting
10500 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2235.999999998436
10501 Ai: 25 Gen: 70
10502 Sim Starting
10503 Sim over Total pop = 0 Tick Complete = 10942
    Fitness = 1496.449999999941
10504 Ai: 26 Gen: 70
10505 Sim Starting
10506 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1300.0500000000127
10507 Ai: 27 Gen: 70
10508 Sim Starting
10509 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3345.999999999698
10510 Ai: 28 Gen: 70
10511 Sim Starting
10512 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 3666.849999999703
10513 Ai: 29 Gen: 70
10514 Sim Starting
10515 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3031.399999999721
10516 Ai: 30 Gen: 70
10517 Sim Starting
10518 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1907.4000000001006
10519 Ai: 31 Gen: 70
10520 Sim Starting
10521 Sim over Total pop = 0 Tick Complete = 557
    Fitness = -199.1
10522 Ai: 32 Gen: 70
10523 Sim Starting
10524 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10525 Ai: 33 Gen: 70
10526 Sim Starting
10527 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 4158.899999999632
10528 Ai: 34 Gen: 70
10529 Sim Starting
```

```
10530 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10531 Ai: 35 Gen: 70
10532 Sim Starting
10533 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
10534 Ai: 36 Gen: 70
10535 Sim Starting
10536 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 256.5
10537 Ai: 37 Gen: 70
10538 Sim Starting
10539 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10540 Ai: 38 Gen: 70
10541 Sim Starting
10542 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 225.15000000000023
10543 Ai: 39 Gen: 70
10544 Sim Starting
10545 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1300.2500000000127
10546 Ai: 40 Gen: 70
10547 Sim Starting
10548 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2235.999999998436
10549 Ai: 41 Gen: 70
10550 Sim Starting
10551 Sim over Total pop = 0 Tick Complete = 1127
    Fitness = -107.00000000000028
10552 Ai: 42 Gen: 70
10553 Sim Starting
10554 Sim over Total pop = 0 Tick Complete = 14696
    Fitness = 2425.85000000002
10555 Ai: 43 Gen: 70
10556 Sim Starting
10557 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10558 Ai: 44 Gen: 70
10559 Sim Starting
10560 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10561 Ai: 45 Gen: 70
10562 Sim Starting
```

```
10563 Sim over Total pop = 0 Tick Complete = 6072
    Fitness = 948.050000000019
10564 Ai: 46 Gen: 70
10565 Sim Starting
10566 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -151.0
10567 Ai: 47 Gen: 70
10568 Sim Starting
10569 Sim over Total pop = 0 Tick Complete = 14201
    Fitness = 1888.6000000000768
10570 Ai: 48 Gen: 70
10571 Sim Starting
10572 Sim over Total pop = 0 Tick Complete = 8932
    Fitness = 1536.4000000000547
10573 Ai: 49 Gen: 70
10574 Sim Starting
10575 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10576 Ai: 50 Gen: 70
10577 Sim Starting
10578 Sim over Total pop = 0 Tick Complete = 4213
    Fitness = 420.0
10579 Ai: 0 Gen: 71
10580 Sim Starting
10581 Sim over Total pop = 0 Tick Complete = 10406
    Fitness = 1330.499999999961
10582 Ai: 1 Gen: 71
10583 Sim Starting
10584 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 315.599999999993
10585 Ai: 2 Gen: 71
10586 Sim Starting
10587 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 221.60000000000082
10588 Ai: 3 Gen: 71
10589 Sim Starting
10590 Sim over Total pop = 0 Tick Complete = 18150
    Fitness = 1879.849999999888
10591 Ai: 4 Gen: 71
10592 Sim Starting
10593 Sim over Total pop = 0 Tick Complete = 4191
    Fitness = 649.249999999948
10594 Ai: 5 Gen: 71
10595 Sim Starting
```

```
10596 Sim over Total pop = 0 Tick Complete = 9845
    Fitness = 1324.1499999999655
10597 Ai: 6 Gen: 71
10598 Sim Starting
10599 Sim over Total pop = 0 Tick Complete = 2618
    Fitness = 511.5999999999997
10600 Ai: 7 Gen: 71
10601 Sim Starting
10602 Sim over Total pop = 0 Tick Complete = 5489
    Fitness = 725.9999999999906
10603 Ai: 8 Gen: 71
10604 Sim Starting
10605 Sim over Total pop = 0 Tick Complete = 891
    Fitness = -158.85000000000028
10606 Ai: 9 Gen: 71
10607 Sim Starting
10608 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 316.9499999999999
10609 Ai: 10 Gen: 71
10610 Sim Starting
10611 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 398.0
10612 Ai: 11 Gen: 71
10613 Sim Starting
10614 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3737.799999998465
10615 Ai: 12 Gen: 71
10616 Sim Starting
10617 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2175.999999998527
10618 Ai: 13 Gen: 71
10619 Sim Starting
10620 Sim over Total pop = 0 Tick Complete = 3173
    Fitness = 497.6500000000236
10621 Ai: 14 Gen: 71
10622 Sim Starting
10623 Sim over Total pop = 0 Tick Complete = 19745
    Fitness = 1536.999999999463
10624 Ai: 15 Gen: 71
10625 Sim Starting
10626 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10627 Ai: 16 Gen: 71
10628 Sim Starting
```

```
10629 Sim over Total pop = 0 Tick Complete = 15070
    Fitness = 1420.0000000000368
10630 Ai: 17 Gen: 71
10631 Sim Starting
10632 Sim over Total pop = 0 Tick Complete = 3278
    Fitness = 107.1
10633 Ai: 18 Gen: 71
10634 Sim Starting
10635 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2716.8999999998314
10636 Ai: 19 Gen: 71
10637 Sim Starting
10638 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10639 Ai: 20 Gen: 71
10640 Sim Starting
10641 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1412.1999999999634
10642 Ai: 21 Gen: 71
10643 Sim Starting
10644 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 972.2999999999774
10645 Ai: 22 Gen: 71
10646 Sim Starting
10647 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
10648 Ai: 23 Gen: 71
10649 Sim Starting
10650 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.3000000000209
10651 Ai: 24 Gen: 71
10652 Sim Starting
10653 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10654 Ai: 25 Gen: 71
10655 Sim Starting
10656 Sim over Total pop = 0 Tick Complete = 16137
    Fitness = 1408.850000000035
10657 Ai: 26 Gen: 71
10658 Sim Starting
10659 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 800.4000000000182
10660 Ai: 27 Gen: 71
10661 Sim Starting
```

```
10662 Sim over Total pop = 0 Tick Complete = 8962
    Fitness = 1621.3999999999896
10663 Ai: 28 Gen: 71
10664 Sim Starting
10665 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10666 Ai: 29 Gen: 71
10667 Sim Starting
10668 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.600000000209
10669 Ai: 30 Gen: 71
10670 Sim Starting
10671 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2789.3999999998177
10672 Ai: 31 Gen: 71
10673 Sim Starting
10674 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2835.999999999749
10675 Ai: 32 Gen: 71
10676 Sim Starting
10677 Sim over Total pop = 0 Tick Complete = 1938
    Fitness = 548.300000000003
10678 Ai: 33 Gen: 71
10679 Sim Starting
10680 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10681 Ai: 34 Gen: 71
10682 Sim Starting
10683 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 882.20000000021
10684 Ai: 35 Gen: 71
10685 Sim Starting
10686 Sim over Total pop = 0 Tick Complete = 558
    Fitness = -198.2
10687 Ai: 36 Gen: 71
10688 Sim Starting
10689 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10690 Ai: 37 Gen: 71
10691 Sim Starting
10692 Sim over Total pop = 0 Tick Complete = 8591
    Fitness = 963.900000000274
10693 Ai: 38 Gen: 71
10694 Sim Starting
```

```
10695 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -191.60000000000002
10696 Ai: 39 Gen: 71
10697 Sim Starting
10698 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.500000000209
10699 Ai: 40 Gen: 71
10700 Sim Starting
10701 Sim over Total pop = 0 Tick Complete = 2835
    Fitness = 448.450000000038
10702 Ai: 41 Gen: 71
10703 Sim Starting
10704 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1820.5499999999051
10705 Ai: 42 Gen: 71
10706 Sim Starting
10707 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10708 Ai: 43 Gen: 71
10709 Sim Starting
10710 Sim over Total pop = 0 Tick Complete = 8701
    Fitness = 1280.5999999999808
10711 Ai: 44 Gen: 71
10712 Sim Starting
10713 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 853.900000000021
10714 Ai: 45 Gen: 71
10715 Sim Starting
10716 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10717 Ai: 46 Gen: 71
10718 Sim Starting
10719 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -174.1000000000002
10720 Ai: 47 Gen: 71
10721 Sim Starting
10722 Sim over Total pop = 0 Tick Complete = 14564
    Fitness = 882.2500000000153
10723 Ai: 48 Gen: 71
10724 Sim Starting
10725 Sim over Total pop = 0 Tick Complete = 6776
    Fitness = 607.1499999999979
10726 Ai: 49 Gen: 71
10727 Sim Starting
```

```
10728 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
10729 Ai: 0 Gen: 72
10730 Sim Starting
10731 Sim over Total pop = 0 Tick Complete = 5335
    Fitness = 728.1500000000088
10732 Ai: 1 Gen: 72
10733 Sim Starting
10734 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2773.349999999786
10735 Ai: 2 Gen: 72
10736 Sim Starting
10737 Sim over Total pop = 0 Tick Complete = 4353
    Fitness = 477.7999999999717
10738 Ai: 3 Gen: 72
10739 Sim Starting
10740 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 179.0
10741 Ai: 4 Gen: 72
10742 Sim Starting
10743 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 345.499999999977
10744 Ai: 5 Gen: 72
10745 Sim Starting
10746 Sim over Total pop = 0 Tick Complete = 14850
    Fitness = 1330.249999999975
10747 Ai: 6 Gen: 72
10748 Sim Starting
10749 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 331.6000000000007
10750 Ai: 7 Gen: 72
10751 Sim Starting
10752 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 183.1499999999986
10753 Ai: 8 Gen: 72
10754 Sim Starting
10755 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 468.7999999999995
10756 Ai: 9 Gen: 72
10757 Sim Starting
10758 Sim over Total pop = 0 Tick Complete = 4961
    Fitness = 681.0000000000057
10759 Ai: 10 Gen: 72
10760 Sim Starting
```

```
10761 Sim over Total pop = 0 Tick Complete = 15950
    Fitness = 2271.649999999854
10762 Ai: 11 Gen: 72
10763 Sim Starting
10764 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 208.0
10765 Ai: 12 Gen: 72
10766 Sim Starting
10767 Sim over Total pop = 0 Tick Complete = 7755
    Fitness = 723.000000000122
10768 Ai: 13 Gen: 72
10769 Sim Starting
10770 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2236.449999999951
10771 Ai: 14 Gen: 72
10772 Sim Starting
10773 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3088.499999999708
10774 Ai: 15 Gen: 72
10775 Sim Starting
10776 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2492.099999999919
10777 Ai: 16 Gen: 72
10778 Sim Starting
10779 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1517.299999999932
10780 Ai: 17 Gen: 72
10781 Sim Starting
10782 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 969.7499999999776
10783 Ai: 18 Gen: 72
10784 Sim Starting
10785 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2445.999999999808
10786 Ai: 19 Gen: 72
10787 Sim Starting
10788 Sim over Total pop = 0 Tick Complete = 10399
    Fitness = 1747.0500000000475
10789 Ai: 20 Gen: 72
10790 Sim Starting
10791 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2976.2999999997287
10792 Ai: 21 Gen: 72
10793 Sim Starting
```

```
10794 Sim over Total pop = 0 Tick Complete = 10766
    Fitness = 262.45
10795 Ai: 22 Gen: 72
10796 Sim Starting
10797 Sim over Total pop = 0 Tick Complete = 6798
    Fitness = 839.899999999999
10798 Ai: 23 Gen: 72
10799 Sim Starting
10800 Sim over Total pop = 0 Tick Complete = 5170
    Fitness = 674.449999999992
10801 Ai: 24 Gen: 72
10802 Sim Starting
10803 Sim over Total pop = 0 Tick Complete = 7656
    Fitness = 991.700000000007
10804 Ai: 25 Gen: 72
10805 Sim Starting
10806 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.199999999998
10807 Ai: 26 Gen: 72
10808 Sim Starting
10809 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10810 Ai: 27 Gen: 72
10811 Sim Starting
10812 Sim over Total pop = 0 Tick Complete = 11638
    Fitness = 1718.949999999246
10813 Ai: 28 Gen: 72
10814 Sim Starting
10815 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -129.0
10816 Ai: 29 Gen: 72
10817 Sim Starting
10818 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2230.499999998377
10819 Ai: 30 Gen: 72
10820 Sim Starting
10821 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2385.99999999817
10822 Ai: 31 Gen: 72
10823 Sim Starting
10824 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3124.499999997035
10825 Ai: 32 Gen: 72
10826 Sim Starting
```

```
10827 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 935.4000000000235
10828 Ai: 33 Gen: 72
10829 Sim Starting
10830 Sim over Total pop = 0 Tick Complete = 516
    Fitness = -202.65
10831 Ai: 34 Gen: 72
10832 Sim Starting
10833 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2477.149999999903
10834 Ai: 35 Gen: 72
10835 Sim Starting
10836 Sim over Total pop = 0 Tick Complete = 5090
    Fitness = 1001.599999999994
10837 Ai: 36 Gen: 72
10838 Sim Starting
10839 Sim over Total pop = 0 Tick Complete = 9427
    Fitness = 397.5499999999995
10840 Ai: 37 Gen: 72
10841 Sim Starting
10842 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -203.4
10843 Ai: 38 Gen: 72
10844 Sim Starting
10845 Sim over Total pop = 0 Tick Complete = 3982
    Fitness = 596.8499999999996
10846 Ai: 39 Gen: 72
10847 Sim Starting
10848 Sim over Total pop = 0 Tick Complete = 19195
    Fitness = 2999.699999999946
10849 Ai: 40 Gen: 72
10850 Sim Starting
10851 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10852 Ai: 41 Gen: 72
10853 Sim Starting
10854 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 950.5500000000243
10855 Ai: 42 Gen: 72
10856 Sim Starting
10857 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
10858 Ai: 43 Gen: 72
10859 Sim Starting
```

```
10860 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2136.6999999999807
10861 Ai: 44 Gen: 72
10862 Sim Starting
10863 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
10864 Ai: 45 Gen: 72
10865 Sim Starting
10866 Sim over Total pop = 0 Tick Complete = 3960
    Fitness = 725.649999999985
10867 Ai: 46 Gen: 72
10868 Sim Starting
10869 Sim over Total pop = 0 Tick Complete = 9999
    Fitness = 1260.7000000000382
10870 Ai: 47 Gen: 72
10871 Sim Starting
10872 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 1566.5000000000337
10873 Ai: 48 Gen: 72
10874 Sim Starting
10875 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.8500000000209
10876 Ai: 49 Gen: 72
10877 Sim Starting
10878 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -202.6
10879 Ai: 0 Gen: 73
10880 Sim Starting
10881 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 508.449999999989
10882 Ai: 1 Gen: 73
10883 Sim Starting
10884 Sim over Total pop = 0 Tick Complete = 5984
    Fitness = 1133.449999999994
10885 Ai: 2 Gen: 73
10886 Sim Starting
10887 Sim over Total pop = 0 Tick Complete = 13475
    Fitness = 1409.649999999951
10888 Ai: 3 Gen: 73
10889 Sim Starting
10890 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 254.95000000000084
10891 Ai: 4 Gen: 73
10892 Sim Starting
```

```
10893 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 450.400000000003
10894 Ai: 5 Gen: 73
10895 Sim Starting
10896 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 189.0000000000063
10897 Ai: 6 Gen: 73
10898 Sim Starting
10899 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 1012.5500000000056
10900 Ai: 7 Gen: 73
10901 Sim Starting
10902 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 136.2999999999944
10903 Ai: 8 Gen: 73
10904 Sim Starting
10905 Sim over Total pop = 0 Tick Complete = 2717
    Fitness = 634.99999999998
10906 Ai: 9 Gen: 73
10907 Sim Starting
10908 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 319.5
10909 Ai: 10 Gen: 73
10910 Sim Starting
10911 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 414.6500000000006
10912 Ai: 11 Gen: 73
10913 Sim Starting
10914 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 200.3499999999974
10915 Ai: 12 Gen: 73
10916 Sim Starting
10917 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 176.3000000000013
10918 Ai: 13 Gen: 73
10919 Sim Starting
10920 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -161.5
10921 Ai: 14 Gen: 73
10922 Sim Starting
10923 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2505.999999999799
10924 Ai: 15 Gen: 73
10925 Sim Starting
```

```
10926 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1690.4999999999225
10927 Ai: 16 Gen: 73
10928 Sim Starting
10929 Sim over Total pop = 0 Tick Complete = 1171
    Fitness = 192.25
10930 Ai: 17 Gen: 73
10931 Sim Starting
10932 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
10933 Ai: 18 Gen: 73
10934 Sim Starting
10935 Sim over Total pop = 0 Tick Complete = 9460
    Fitness = 1327.3499999999838
10936 Ai: 19 Gen: 73
10937 Sim Starting
10938 Sim over Total pop = 0 Tick Complete = 8877
    Fitness = 368.25
10939 Ai: 20 Gen: 73
10940 Sim Starting
10941 Sim over Total pop = 0 Tick Complete = 9229
    Fitness = 479.9500000000047
10942 Ai: 21 Gen: 73
10943 Sim Starting
10944 Sim over Total pop = 0 Tick Complete = 6963
    Fitness = 751.35
10945 Ai: 22 Gen: 73
10946 Sim Starting
10947 Sim over Total pop = 0 Tick Complete = 11528
    Fitness = 1753.0000000000005
10948 Ai: 23 Gen: 73
10949 Sim Starting
10950 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -180.65
10951 Ai: 24 Gen: 73
10952 Sim Starting
10953 Sim over Total pop = 0 Tick Complete = 14894
    Fitness = 1432.6500000000499
10954 Ai: 25 Gen: 73
10955 Sim Starting
10956 Sim over Total pop = 0 Tick Complete = 4081
    Fitness = 986.6000000000008
10957 Ai: 26 Gen: 73
10958 Sim Starting
```

```
10959 Sim over Total pop = 0 Tick Complete = 16786
    Fitness = 2261.7000000000103
10960 Ai: 27 Gen: 73
10961 Sim Starting
10962 Sim over Total pop = 0 Tick Complete = 6743
    Fitness = 901.549999999993
10963 Ai: 28 Gen: 73
10964 Sim Starting
10965 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1508.5499999999429
10966 Ai: 29 Gen: 73
10967 Sim Starting
10968 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
10969 Ai: 30 Gen: 73
10970 Sim Starting
10971 Sim over Total pop = 0 Tick Complete = 5412
    Fitness = 762.3999999999902
10972 Ai: 31 Gen: 73
10973 Sim Starting
10974 Sim over Total pop = 0 Tick Complete = 10395
    Fitness = 1498.3499999999485
10975 Ai: 32 Gen: 73
10976 Sim Starting
10977 Sim over Total pop = 0 Tick Complete = 7667
    Fitness = 1198.1999999999878
10978 Ai: 33 Gen: 73
10979 Sim Starting
10980 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = -92.6499999999989
10981 Ai: 34 Gen: 73
10982 Sim Starting
10983 Sim over Total pop = 0 Tick Complete = 14542
    Fitness = 1297.0000000000243
10984 Ai: 35 Gen: 73
10985 Sim Starting
10986 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3149.199999999705
10987 Ai: 36 Gen: 73
10988 Sim Starting
10989 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2709.7499999999923
10990 Ai: 37 Gen: 73
10991 Sim Starting
```

```
10992 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
10993 Ai: 38 Gen: 73
10994 Sim Starting
10995 Sim over Total pop = 0 Tick Complete = 8085
    Fitness = 877.1500000000146
10996 Ai: 39 Gen: 73
10997 Sim Starting
10998 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 898.54999999998
10999 Ai: 40 Gen: 73
11000 Sim Starting
11001 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.35
11002 Ai: 41 Gen: 73
11003 Sim Starting
11004 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2278.749999999823
11005 Ai: 42 Gen: 73
11006 Sim Starting
11007 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2619.749999999563
11008 Ai: 43 Gen: 73
11009 Sim Starting
11010 Sim over Total pop = 0 Tick Complete = 13205
    Fitness = 1813.6000000000574
11011 Ai: 44 Gen: 73
11012 Sim Starting
11013 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11014 Ai: 45 Gen: 73
11015 Sim Starting
11016 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2396.1999999999143
11017 Ai: 46 Gen: 73
11018 Sim Starting
11019 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2536.5999999998903
11020 Ai: 47 Gen: 73
11021 Sim Starting
11022 Sim over Total pop = 0 Tick Complete = 654
    Fitness = 161.0999999999999
11023 Ai: 48 Gen: 73
11024 Sim Starting
```

```
11025 Sim over Total pop = 0 Tick Complete = 2442
    Fitness = 525.8000000000028
11026 Ai: 49 Gen: 73
11027 Sim Starting
11028 Sim over Total pop = 0 Tick Complete = 4279
    Fitness = 520.2499999999968
11029 Ai: 50 Gen: 73
11030 Sim Starting
11031 Sim over Total pop = 0 Tick Complete = 3685
    Fitness = 573.7499999999995
11032 Ai: 0 Gen: 74
11033 Sim Starting
11034 Sim over Total pop = 0 Tick Complete = 5874
    Fitness = 1112.8999999999915
11035 Ai: 1 Gen: 74
11036 Sim Starting
11037 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 403.5499999999994
11038 Ai: 2 Gen: 74
11039 Sim Starting
11040 Sim over Total pop = 0 Tick Complete = 4532
    Fitness = 978.1000000000078
11041 Ai: 3 Gen: 74
11042 Sim Starting
11043 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
11044 Ai: 4 Gen: 74
11045 Sim Starting
11046 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 630.3499999999988
11047 Ai: 5 Gen: 74
11048 Sim Starting
11049 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 469.0499999999989
11050 Ai: 6 Gen: 74
11051 Sim Starting
11052 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 766.5999999999998
11053 Ai: 7 Gen: 74
11054 Sim Starting
11055 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 252.15000000000146
11056 Ai: 8 Gen: 74
11057 Sim Starting
```

```
11058 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 189.0
11059 Ai: 9 Gen: 74
11060 Sim Starting
11061 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
11062 Ai: 10 Gen: 74
11063 Sim Starting
11064 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 264.0
11065 Ai: 11 Gen: 74
11066 Sim Starting
11067 Sim over Total pop = 0 Tick Complete = 6600
    Fitness = 791.6499999999935
11068 Ai: 12 Gen: 74
11069 Sim Starting
11070 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2841.6999999998093
11071 Ai: 13 Gen: 74
11072 Sim Starting
11073 Sim over Total pop = 0 Tick Complete = 9732
    Fitness = 1436.299999999999
11074 Ai: 14 Gen: 74
11075 Sim Starting
11076 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 993.7999999999764
11077 Ai: 15 Gen: 74
11078 Sim Starting
11079 Sim over Total pop = 0 Tick Complete = 8368
    Fitness = 1067.7500000000211
11080 Ai: 16 Gen: 74
11081 Sim Starting
11082 Sim over Total pop = 0 Tick Complete = 9394
    Fitness = 1431.6499999999708
11083 Ai: 17 Gen: 74
11084 Sim Starting
11085 Sim over Total pop = 0 Tick Complete = 5665
    Fitness = 594.2500000000006
11086 Ai: 18 Gen: 74
11087 Sim Starting
11088 Sim over Total pop = 0 Tick Complete = 11451
    Fitness = 1546.8999999999564
11089 Ai: 19 Gen: 74
11090 Sim Starting
```

```
11091 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3912.5000000002515
11092 Ai: 20 Gen: 74
11093 Sim Starting
11094 Sim over Total pop = 0 Tick Complete = 3627
    Fitness = 492.1499999999995
11095 Ai: 21 Gen: 74
11096 Sim Starting
11097 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3504.999999999645
11098 Ai: 22 Gen: 74
11099 Sim Starting
11100 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.9000000000209
11101 Ai: 23 Gen: 74
11102 Sim Starting
11103 Sim over Total pop = 0 Tick Complete = 2205
    Fitness = 735.2
11104 Ai: 24 Gen: 74
11105 Sim Starting
11106 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 136.5
11107 Ai: 25 Gen: 74
11108 Sim Starting
11109 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -150.0
11110 Ai: 26 Gen: 74
11111 Sim Starting
11112 Sim over Total pop = 0 Tick Complete = 16071
    Fitness = 2340.299999998715
11113 Ai: 27 Gen: 74
11114 Sim Starting
11115 Sim over Total pop = 0 Tick Complete = 10076
    Fitness = 1429.999999999575
11116 Ai: 28 Gen: 74
11117 Sim Starting
11118 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -195.0
11119 Ai: 29 Gen: 74
11120 Sim Starting
11121 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 520.449999999977
11122 Ai: 30 Gen: 74
11123 Sim Starting
```

```
11124 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 470.89999999999895
11125 Ai: 31 Gen: 74
11126 Sim Starting
11127 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.499999997194
11128 Ai: 32 Gen: 74
11129 Sim Starting
11130 Sim over Total pop = 0 Tick Complete = 17674
    Fitness = 3076.750000000169
11131 Ai: 33 Gen: 74
11132 Sim Starting
11133 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3965.249999995666
11134 Ai: 34 Gen: 74
11135 Sim Starting
11136 Sim over Total pop = 0 Tick Complete = 6179
    Fitness = 750.999999999922
11137 Ai: 35 Gen: 74
11138 Sim Starting
11139 Sim over Total pop = 0 Tick Complete = 9768
    Fitness = 826.250000000059
11140 Ai: 36 Gen: 74
11141 Sim Starting
11142 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11143 Ai: 37 Gen: 74
11144 Sim Starting
11145 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11146 Ai: 38 Gen: 74
11147 Sim Starting
11148 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1786.000000000757
11149 Ai: 39 Gen: 74
11150 Sim Starting
11151 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
11152 Ai: 40 Gen: 74
11153 Sim Starting
11154 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3409.4500000000908
11155 Ai: 41 Gen: 74
11156 Sim Starting
```

```
11157 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.2999999999997
11158 Ai: 42 Gen: 74
11159 Sim Starting
11160 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2335.0499999999042
11161 Ai: 43 Gen: 74
11162 Sim Starting
11163 Sim over Total pop = 0 Tick Complete = 508
    Fitness = -148.7
11164 Ai: 44 Gen: 74
11165 Sim Starting
11166 Sim over Total pop = 0 Tick Complete = 2112
    Fitness = 276.9000000000011
11167 Ai: 45 Gen: 74
11168 Sim Starting
11169 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11170 Ai: 46 Gen: 74
11171 Sim Starting
11172 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1718.0499999999151
11173 Ai: 47 Gen: 74
11174 Sim Starting
11175 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2820.249999998454
11176 Ai: 48 Gen: 74
11177 Sim Starting
11178 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
11179 Ai: 49 Gen: 74
11180 Sim Starting
11181 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11182 Ai: 0 Gen: 75
11183 Sim Starting
11184 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 294.7500000000025
11185 Ai: 1 Gen: 75
11186 Sim Starting
11187 Sim over Total pop = 0 Tick Complete = 8195
    Fitness = 749.1999999999812
11188 Ai: 2 Gen: 75
11189 Sim Starting
```

```
11190 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 289.1999999999997
11191 Ai: 3 Gen: 75
11192 Sim Starting
11193 Sim over Total pop = 0 Tick Complete = 2827
    Fitness = 464.2499999999943
11194 Ai: 4 Gen: 75
11195 Sim Starting
11196 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 107.0
11197 Ai: 5 Gen: 75
11198 Sim Starting
11199 Sim over Total pop = 0 Tick Complete = 6457
    Fitness = 839.8000000000063
11200 Ai: 6 Gen: 75
11201 Sim Starting
11202 Sim over Total pop = 0 Tick Complete = 6490
    Fitness = 1087.3000000000152
11203 Ai: 7 Gen: 75
11204 Sim Starting
11205 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2534.49999999795
11206 Ai: 8 Gen: 75
11207 Sim Starting
11208 Sim over Total pop = 0 Tick Complete = 1196
    Fitness = 182.35000000000002
11209 Ai: 9 Gen: 75
11210 Sim Starting
11211 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 364.7999999999575
11212 Ai: 10 Gen: 75
11213 Sim Starting
11214 Sim over Total pop = 0 Tick Complete = 2915
    Fitness = 540.249999999994
11215 Ai: 11 Gen: 75
11216 Sim Starting
11217 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2641.499999999413
11218 Ai: 12 Gen: 75
11219 Sim Starting
11220 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3689.149999999871
11221 Ai: 13 Gen: 75
11222 Sim Starting
```

```
11223 Sim over Total pop = 0 Tick Complete = 18254
    Fitness = 2100.100000000131
11224 Ai: 14 Gen: 75
11225 Sim Starting
11226 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -202.55
11227 Ai: 15 Gen: 75
11228 Sim Starting
11229 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 654.1499999999984
11230 Ai: 16 Gen: 75
11231 Sim Starting
11232 Sim over Total pop = 0 Tick Complete = 6853
    Fitness = 589.0999999999988
11233 Ai: 17 Gen: 75
11234 Sim Starting
11235 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11236 Ai: 18 Gen: 75
11237 Sim Starting
11238 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 882.800000000021
11239 Ai: 19 Gen: 75
11240 Sim Starting
11241 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2487.399999999802
11242 Ai: 20 Gen: 75
11243 Sim Starting
11244 Sim over Total pop = 0 Tick Complete = 6451
    Fitness = 397.5
11245 Ai: 21 Gen: 75
11246 Sim Starting
11247 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.3000000000209
11248 Ai: 22 Gen: 75
11249 Sim Starting
11250 Sim over Total pop = 0 Tick Complete = 558
    Fitness = -153.65
11251 Ai: 23 Gen: 75
11252 Sim Starting
11253 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11254 Ai: 24 Gen: 75
11255 Sim Starting
```

```
11256 Sim over Total pop = 0 Tick Complete = 4268
    Fitness = 587.7000000000002
11257 Ai: 25 Gen: 75
11258 Sim Starting
11259 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11260 Ai: 26 Gen: 75
11261 Sim Starting
11262 Sim over Total pop = 0 Tick Complete = 7645
    Fitness = 979.899999999809
11263 Ai: 27 Gen: 75
11264 Sim Starting
11265 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 972.449999999774
11266 Ai: 28 Gen: 75
11267 Sim Starting
11268 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2992.2999999984
11269 Ai: 29 Gen: 75
11270 Sim Starting
11271 Sim over Total pop = 0 Tick Complete = 17781
    Fitness = 1809.700000000826
11272 Ai: 30 Gen: 75
11273 Sim Starting
11274 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -183.0500000000015
11275 Ai: 31 Gen: 75
11276 Sim Starting
11277 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2782.449999999957
11278 Ai: 32 Gen: 75
11279 Sim Starting
11280 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3002.199999998325
11281 Ai: 33 Gen: 75
11282 Sim Starting
11283 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
11284 Ai: 34 Gen: 75
11285 Sim Starting
11286 Sim over Total pop = 0 Tick Complete = 10395
    Fitness = 1564.000000000036
11287 Ai: 35 Gen: 75
11288 Sim Starting
```

```
11289 Sim over Total pop = 0 Tick Complete = 10043
    Fitness = 1229.25000000000136
11290 Ai: 36 Gen: 75
11291 Sim Starting
11292 Sim over Total pop = 0 Tick Complete = 5192
    Fitness = 748.2999999999963
11293 Ai: 37 Gen: 75
11294 Sim Starting
11295 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1623.5000000000746
11296 Ai: 38 Gen: 75
11297 Sim Starting
11298 Sim over Total pop = 0 Tick Complete = 2406
    Fitness = 594.8000000000047
11299 Ai: 39 Gen: 75
11300 Sim Starting
11301 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2110.49999999986
11302 Ai: 40 Gen: 75
11303 Sim Starting
11304 Sim over Total pop = 0 Tick Complete = 7631
    Fitness = 1172.1499999999876
11305 Ai: 41 Gen: 75
11306 Sim Starting
11307 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 3017.8500000000377
11308 Ai: 42 Gen: 75
11309 Sim Starting
11310 Sim over Total pop = 0 Tick Complete = 1471
    Fitness = 222.1000000000014
11311 Ai: 43 Gen: 75
11312 Sim Starting
11313 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2500.499999997967
11314 Ai: 44 Gen: 75
11315 Sim Starting
11316 Sim over Total pop = 0 Tick Complete = 15661
    Fitness = 1021.5499999999765
11317 Ai: 45 Gen: 75
11318 Sim Starting
11319 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 923.1499999999832
11320 Ai: 46 Gen: 75
11321 Sim Starting
```

```
11322 Sim over Total pop = 0 Tick Complete = 2175
    Fitness = 699.7999999999979
11323 Ai: 47 Gen: 75
11324 Sim Starting
11325 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11326 Ai: 48 Gen: 75
11327 Sim Starting
11328 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1433.449999999963
11329 Ai: 49 Gen: 75
11330 Sim Starting
11331 Sim over Total pop = 0 Tick Complete = 9402
    Fitness = 324.149999999994
11332 Ai: 50 Gen: 75
11333 Sim Starting
11334 Sim over Total pop = 0 Tick Complete = 12133
    Fitness = 1560.3499999999967
11335 Ai: 0 Gen: 76
11336 Sim Starting
11337 Sim over Total pop = 0 Tick Complete = 3685
    Fitness = 884.099999999924
11338 Ai: 1 Gen: 76
11339 Sim Starting
11340 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 464.5000000000028
11341 Ai: 2 Gen: 76
11342 Sim Starting
11343 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 641.399999999992
11344 Ai: 3 Gen: 76
11345 Sim Starting
11346 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 127.4499999999953
11347 Ai: 4 Gen: 76
11348 Sim Starting
11349 Sim over Total pop = 0 Tick Complete = 6226
    Fitness = 633.4500000000023
11350 Ai: 5 Gen: 76
11351 Sim Starting
11352 Sim over Total pop = 0 Tick Complete = 3256
    Fitness = 536.0500000000056
11353 Ai: 6 Gen: 76
11354 Sim Starting
```

```
11355 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = -26.49999999999998
11356 Ai: 7 Gen: 76
11357 Sim Starting
11358 Sim over Total pop = 0 Tick Complete = 2893
    Fitness = 430.0000000000057
11359 Ai: 8 Gen: 76
11360 Sim Starting
11361 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 658.0000000000034
11362 Ai: 9 Gen: 76
11363 Sim Starting
11364 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 80.8499999999999
11365 Ai: 10 Gen: 76
11366 Sim Starting
11367 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 196.7999999999994
11368 Ai: 11 Gen: 76
11369 Sim Starting
11370 Sim over Total pop = 0 Tick Complete = 4125
    Fitness = 367.5000000000027
11371 Ai: 12 Gen: 76
11372 Sim Starting
11373 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2659.9500000000025
11374 Ai: 13 Gen: 76
11375 Sim Starting
11376 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.499999997194
11377 Ai: 14 Gen: 76
11378 Sim Starting
11379 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2692.999999998186
11380 Ai: 15 Gen: 76
11381 Sim Starting
11382 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2648.499999999072
11383 Ai: 16 Gen: 76
11384 Sim Starting
11385 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.7500000000209
11386 Ai: 17 Gen: 76
11387 Sim Starting
```

```
11388 Sim over Total pop = 0 Tick Complete = 3395
    Fitness = 280.0
11389 Ai: 18 Gen: 76
11390 Sim Starting
11391 Sim over Total pop = 0 Tick Complete = 4125
    Fitness = 45.69999999999999
11392 Ai: 19 Gen: 76
11393 Sim Starting
11394 Sim over Total pop = 0 Tick Complete = 17347
    Fitness = 1246.6000000000083
11395 Ai: 20 Gen: 76
11396 Sim Starting
11397 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 863.1500000000212
11398 Ai: 21 Gen: 76
11399 Sim Starting
11400 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2006.3000000001364
11401 Ai: 22 Gen: 76
11402 Sim Starting
11403 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2498.249999999204
11404 Ai: 23 Gen: 76
11405 Sim Starting
11406 Sim over Total pop = 0 Tick Complete = 717
    Fitness = -139.45
11407 Ai: 24 Gen: 76
11408 Sim Starting
11409 Sim over Total pop = 0 Tick Complete = 5291
    Fitness = 649.7500000000107
11410 Ai: 25 Gen: 76
11411 Sim Starting
11412 Sim over Total pop = 0 Tick Complete = 7293
    Fitness = 393.8499999999999
11413 Ai: 26 Gen: 76
11414 Sim Starting
11415 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -202.0
11416 Ai: 27 Gen: 76
11417 Sim Starting
11418 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11419 Ai: 28 Gen: 76
11420 Sim Starting
```

```
11421 Sim over Total pop = 0 Tick Complete = 16995
    Fitness = 1927.8499999998787
11422 Ai: 29 Gen: 76
11423 Sim Starting
11424 Sim over Total pop = 0 Tick Complete = 4763
    Fitness = 705.5499999999912
11425 Ai: 30 Gen: 76
11426 Sim Starting
11427 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2037.7999999998738
11428 Ai: 31 Gen: 76
11429 Sim Starting
11430 Sim over Total pop = 0 Tick Complete = 5420
    Fitness = 1023.050000000012
11431 Ai: 32 Gen: 76
11432 Sim Starting
11433 Sim over Total pop = 0 Tick Complete = 18909
    Fitness = 2984.2999999997674
11434 Ai: 33 Gen: 76
11435 Sim Starting
11436 Sim over Total pop = 0 Tick Complete = 12045
    Fitness = 1897.1999999999775
11437 Ai: 34 Gen: 76
11438 Sim Starting
11439 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3471.499999999653
11440 Ai: 35 Gen: 76
11441 Sim Starting
11442 Sim over Total pop = 0 Tick Complete = 7114
    Fitness = 412.1499999999936
11443 Ai: 36 Gen: 76
11444 Sim Starting
11445 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -132.0
11446 Ai: 37 Gen: 76
11447 Sim Starting
11448 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3492.1999999997097
11449 Ai: 38 Gen: 76
11450 Sim Starting
11451 Sim over Total pop = 0 Tick Complete = 17663
    Fitness = 1421.6000000000372
11452 Ai: 39 Gen: 76
11453 Sim Starting
```

```
11454 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 588.1999999999998
11455 Ai: 40 Gen: 76
11456 Sim Starting
11457 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 502.1000000000036
11458 Ai: 41 Gen: 76
11459 Sim Starting
11460 Sim over Total pop = 0 Tick Complete = 7832
    Fitness = 300.45
11461 Ai: 42 Gen: 76
11462 Sim Starting
11463 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2832.79999999748
11464 Ai: 43 Gen: 76
11465 Sim Starting
11466 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2410.499999998104
11467 Ai: 44 Gen: 76
11468 Sim Starting
11469 Sim over Total pop = 0 Tick Complete = 2238
    Fitness = 516.0500000000002
11470 Ai: 45 Gen: 76
11471 Sim Starting
11472 Sim over Total pop = 0 Tick Complete = 5566
    Fitness = 655.7500000000105
11473 Ai: 46 Gen: 76
11474 Sim Starting
11475 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -202.3
11476 Ai: 47 Gen: 76
11477 Sim Starting
11478 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11479 Ai: 48 Gen: 76
11480 Sim Starting
11481 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11482 Ai: 49 Gen: 76
11483 Sim Starting
11484 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1759.4000000000076
11485 Ai: 0 Gen: 77
11486 Sim Starting
```

```
11487 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3327.3999999996786
11488 Ai: 1 Gen: 77
11489 Sim Starting
11490 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 997.5000000000256
11491 Ai: 2 Gen: 77
11492 Sim Starting
11493 Sim over Total pop = 0 Tick Complete = 3819
    Fitness = 783.4499999999963
11494 Ai: 3 Gen: 77
11495 Sim Starting
11496 Sim over Total pop = 0 Tick Complete = 16225
    Fitness = 1008.0500000000181
11497 Ai: 4 Gen: 77
11498 Sim Starting
11499 Sim over Total pop = 0 Tick Complete = 19415
    Fitness = 2014.8000000000416
11500 Ai: 5 Gen: 77
11501 Sim Starting
11502 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2394.5999999998094
11503 Ai: 6 Gen: 77
11504 Sim Starting
11505 Sim over Total pop = 0 Tick Complete = 3616
    Fitness = -62.69999999999999
11506 Ai: 7 Gen: 77
11507 Sim Starting
11508 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11509 Ai: 8 Gen: 77
11510 Sim Starting
11511 Sim over Total pop = 0 Tick Complete = 2519
    Fitness = 152.2000000000005
11512 Ai: 9 Gen: 77
11513 Sim Starting
11514 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 781.2500000000016
11515 Ai: 10 Gen: 77
11516 Sim Starting
11517 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1149.05
11518 Ai: 11 Gen: 77
11519 Sim Starting
```

```
11520 Sim over Total pop = 0 Tick Complete = 16439
    Fitness = 2502.849999999946
11521 Ai: 12 Gen: 77
11522 Sim Starting
11523 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2862.1499999998437
11524 Ai: 13 Gen: 77
11525 Sim Starting
11526 Sim over Total pop = 0 Tick Complete = 7730
    Fitness = 448.0
11527 Ai: 14 Gen: 77
11528 Sim Starting
11529 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3502.59999999989
11530 Ai: 15 Gen: 77
11531 Sim Starting
11532 Sim over Total pop = 0 Tick Complete = 2098
    Fitness = 496.6999999999914
11533 Ai: 16 Gen: 77
11534 Sim Starting
11535 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2117.1999999999252
11536 Ai: 17 Gen: 77
11537 Sim Starting
11538 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 1993.5499999999363
11539 Ai: 18 Gen: 77
11540 Sim Starting
11541 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2995.3999999998946
11542 Ai: 19 Gen: 77
11543 Sim Starting
11544 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2862.449999999774
11545 Ai: 20 Gen: 77
11546 Sim Starting
11547 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1552.5999999999901
11548 Ai: 21 Gen: 77
11549 Sim Starting
11550 Sim over Total pop = 0 Tick Complete = 19741
    Fitness = 2868.399999999855
11551 Ai: 22 Gen: 77
11552 Sim Starting
```

```
11553 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2925.3999999999405
11554 Ai: 23 Gen: 77
11555 Sim Starting
11556 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
11557 Ai: 24 Gen: 77
11558 Sim Starting
11559 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3687.949999996438
11560 Ai: 25 Gen: 77
11561 Sim Starting
11562 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 4626.299999999905
11563 Ai: 26 Gen: 77
11564 Sim Starting
11565 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3045.9999999997112
11566 Ai: 27 Gen: 77
11567 Sim Starting
11568 Sim over Total pop = 0 Tick Complete = 11167
    Fitness = 2038.799999999965
11569 Ai: 28 Gen: 77
11570 Sim Starting
11571 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 993.3500000000261
11572 Ai: 29 Gen: 77
11573 Sim Starting
11574 Sim over Total pop = 0 Tick Complete = 624
    Fitness = -182.4
11575 Ai: 30 Gen: 77
11576 Sim Starting
11577 Sim over Total pop = 0 Tick Complete = 4620
    Fitness = 649.8500000000022
11578 Ai: 31 Gen: 77
11579 Sim Starting
11580 Sim over Total pop = 0 Tick Complete = 17292
    Fitness = 1988.0500000000028
11581 Ai: 32 Gen: 77
11582 Sim Starting
11583 Sim over Total pop = 0 Tick Complete = 8745
    Fitness = 971.90000000000278
11584 Ai: 33 Gen: 77
11585 Sim Starting
```

```
11586 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11587 Ai: 34 Gen: 77
11588 Sim Starting
11589 Sim over Total pop = 0 Tick Complete = 18183
    Fitness = 794.9000000000188
11590 Ai: 35 Gen: 77
11591 Sim Starting
11592 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11593 Ai: 36 Gen: 77
11594 Sim Starting
11595 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1883.0999999998949
11596 Ai: 37 Gen: 77
11597 Sim Starting
11598 Sim over Total pop = 0 Tick Complete = 4584
    Fitness = 813.4000000000145
11599 Ai: 38 Gen: 77
11600 Sim Starting
11601 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 141.75
11602 Ai: 39 Gen: 77
11603 Sim Starting
11604 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1665.4999999999263
11605 Ai: 40 Gen: 77
11606 Sim Starting
11607 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1817.9000000000888
11608 Ai: 41 Gen: 77
11609 Sim Starting
11610 Sim over Total pop = 0 Tick Complete = 8860
    Fitness = 1621.1999999999598
11611 Ai: 42 Gen: 77
11612 Sim Starting
11613 Sim over Total pop = 0 Tick Complete = 13816
    Fitness = 1448.3000000000368
11614 Ai: 43 Gen: 77
11615 Sim Starting
11616 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 345.64999999999867
11617 Ai: 44 Gen: 77
11618 Sim Starting
```

```
11619 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11620 Ai: 45 Gen: 77
11621 Sim Starting
11622 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2115.999999998618
11623 Ai: 46 Gen: 77
11624 Sim Starting
11625 Sim over Total pop = 0 Tick Complete = 7719
    Fitness = 1262.700000000023
11626 Ai: 47 Gen: 77
11627 Sim Starting
11628 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 970.2999999999776
11629 Ai: 48 Gen: 77
11630 Sim Starting
11631 Sim over Total pop = 0 Tick Complete = 558
    Fitness = -199.15
11632 Ai: 49 Gen: 77
11633 Sim Starting
11634 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1558.7999999999358
11635 Ai: 0 Gen: 78
11636 Sim Starting
11637 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3879.7999999997605
11638 Ai: 1 Gen: 78
11639 Sim Starting
11640 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2623.6999999998784
11641 Ai: 2 Gen: 78
11642 Sim Starting
11643 Sim over Total pop = 0 Tick Complete = 2785
    Fitness = 746.29999999993
11644 Ai: 3 Gen: 78
11645 Sim Starting
11646 Sim over Total pop = 0 Tick Complete = 13233
    Fitness = 1490.75000000003
11647 Ai: 4 Gen: 78
11648 Sim Starting
11649 Sim over Total pop = 0 Tick Complete = 11154
    Fitness = 759.0
11650 Ai: 5 Gen: 78
11651 Sim Starting
```

```
11652 Sim over Total pop = 0 Tick Complete = 12298
    Fitness = 1263.7500000000268
11653 Ai: 6 Gen: 78
11654 Sim Starting
11655 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1984.549999999925
11656 Ai: 7 Gen: 78
11657 Sim Starting
11658 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1586.2499999999422
11659 Ai: 8 Gen: 78
11660 Sim Starting
11661 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1590.6499999999328
11662 Ai: 9 Gen: 78
11663 Sim Starting
11664 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1203.05
11665 Ai: 10 Gen: 78
11666 Sim Starting
11667 Sim over Total pop = 0 Tick Complete = 4300
    Fitness = 145.15
11668 Ai: 11 Gen: 78
11669 Sim Starting
11670 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1433.5499999999631
11671 Ai: 12 Gen: 78
11672 Sim Starting
11673 Sim over Total pop = 0 Tick Complete = 2670
    Fitness = 634.8499999999999
11674 Ai: 13 Gen: 78
11675 Sim Starting
11676 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 193.25
11677 Ai: 14 Gen: 78
11678 Sim Starting
11679 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3030.499999998026
11680 Ai: 15 Gen: 78
11681 Sim Starting
11682 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1390.4999999999727
11683 Ai: 16 Gen: 78
11684 Sim Starting
```

```
11685 Sim over Total pop = 0 Tick Complete = 2139
    Fitness = 473.1500000000002
11686 Ai: 17 Gen: 78
11687 Sim Starting
11688 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1909.4999999999343
11689 Ai: 18 Gen: 78
11690 Sim Starting
11691 Sim over Total pop = 0 Tick Complete = 14946
    Fitness = 779.25
11692 Ai: 19 Gen: 78
11693 Sim Starting
11694 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2278.0999999999867
11695 Ai: 20 Gen: 78
11696 Sim Starting
11697 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 256.5
11698 Ai: 21 Gen: 78
11699 Sim Starting
11700 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2792.0000000000114
11701 Ai: 22 Gen: 78
11702 Sim Starting
11703 Sim over Total pop = 0 Tick Complete = 591
    Fitness = -142.0
11704 Ai: 23 Gen: 78
11705 Sim Starting
11706 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
11707 Ai: 24 Gen: 78
11708 Sim Starting
11709 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 626.0
11710 Ai: 25 Gen: 78
11711 Sim Starting
11712 Sim over Total pop = 0 Tick Complete = 13684
    Fitness = 1717.1500000000299
11713 Ai: 26 Gen: 78
11714 Sim Starting
11715 Sim over Total pop = 0 Tick Complete = 13695
    Fitness = 1222.3000000000011
11716 Ai: 27 Gen: 78
11717 Sim Starting
```

```
11718 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 4160.749999999798
11719 Ai: 28 Gen: 78
11720 Sim Starting
11721 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1965.999999999838
11722 Ai: 29 Gen: 78
11723 Sim Starting
11724 Sim over Total pop = 0 Tick Complete = 7045
    Fitness = 1141.9500000000016
11725 Ai: 30 Gen: 78
11726 Sim Starting
11727 Sim over Total pop = 0 Tick Complete = 3982
    Fitness = 314.0999999999985
11728 Ai: 31 Gen: 78
11729 Sim Starting
11730 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11731 Ai: 32 Gen: 78
11732 Sim Starting
11733 Sim over Total pop = 0 Tick Complete = 15829
    Fitness = 1030.949999999978
11734 Ai: 33 Gen: 78
11735 Sim Starting
11736 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1848.350000000082
11737 Ai: 34 Gen: 78
11738 Sim Starting
11739 Sim over Total pop = 0 Tick Complete = 14242
    Fitness = 1420.000000000035
11740 Ai: 35 Gen: 78
11741 Sim Starting
11742 Sim over Total pop = 0 Tick Complete = 6820
    Fitness = 920.149999999895
11743 Ai: 36 Gen: 78
11744 Sim Starting
11745 Sim over Total pop = 0 Tick Complete = 15895
    Fitness = 1475.550000000044
11746 Ai: 37 Gen: 78
11747 Sim Starting
11748 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3465.9999999996508
11749 Ai: 38 Gen: 78
11750 Sim Starting
```

```
11751 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1766.1500000000815
11752 Ai: 39 Gen: 78
11753 Sim Starting
11754 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2139.2500000001332
11755 Ai: 40 Gen: 78
11756 Sim Starting
11757 Sim over Total pop = 0 Tick Complete = 19571
    Fitness = 1869.8000000000739
11758 Ai: 41 Gen: 78
11759 Sim Starting
11760 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2076.199999999884
11761 Ai: 42 Gen: 78
11762 Sim Starting
11763 Sim over Total pop = 0 Tick Complete = 8390
    Fitness = 1101.2000000000155
11764 Ai: 43 Gen: 78
11765 Sim Starting
11766 Sim over Total pop = 0 Tick Complete = 14795
    Fitness = 1470.000000000045
11767 Ai: 44 Gen: 78
11768 Sim Starting
11769 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 180.0
11770 Ai: 45 Gen: 78
11771 Sim Starting
11772 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -200.45
11773 Ai: 46 Gen: 78
11774 Sim Starting
11775 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11776 Ai: 47 Gen: 78
11777 Sim Starting
11778 Sim over Total pop = 0 Tick Complete = 539
    Fitness = -197.8500000000002
11779 Ai: 48 Gen: 78
11780 Sim Starting
11781 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11782 Ai: 49 Gen: 78
11783 Sim Starting
```

```
11784 Sim over Total pop = 0 Tick Complete = 2640
    Fitness = 328.10000000000018
11785 Ai: 0 Gen: 79
11786 Sim Starting
11787 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2598.199999999889
11788 Ai: 1 Gen: 79
11789 Sim Starting
11790 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1965.999999999838
11791 Ai: 2 Gen: 79
11792 Sim Starting
11793 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3141.499999999045
11794 Ai: 3 Gen: 79
11795 Sim Starting
11796 Sim over Total pop = 0 Tick Complete = 8131
    Fitness = 1011.899999999892
11797 Ai: 4 Gen: 79
11798 Sim Starting
11799 Sim over Total pop = 0 Tick Complete = 13277
    Fitness = 1981.5000000000018
11800 Ai: 5 Gen: 79
11801 Sim Starting
11802 Sim over Total pop = 0 Tick Complete = 9592
    Fitness = 332.4499999999914
11803 Ai: 6 Gen: 79
11804 Sim Starting
11805 Sim over Total pop = 0 Tick Complete = 7722
    Fitness = 1241.1000000000022
11806 Ai: 7 Gen: 79
11807 Sim Starting
11808 Sim over Total pop = 0 Tick Complete = 7887
    Fitness = 669.3500000000085
11809 Ai: 8 Gen: 79
11810 Sim Starting
11811 Sim over Total pop = 0 Tick Complete = 13167
    Fitness = 543.499999999918
11812 Ai: 9 Gen: 79
11813 Sim Starting
11814 Sim over Total pop = 0 Tick Complete = 9955
    Fitness = 435.1999999999476
11815 Ai: 10 Gen: 79
11816 Sim Starting
```

```
11817 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1944.9000000001065
11818 Ai: 11 Gen: 79
11819 Sim Starting
11820 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1320.649999999978
11821 Ai: 12 Gen: 79
11822 Sim Starting
11823 Sim over Total pop = 0 Tick Complete = 599
    Fitness = -153.0
11824 Ai: 13 Gen: 79
11825 Sim Starting
11826 Sim over Total pop = 0 Tick Complete = 9251
    Fitness = 773.3999999999869
11827 Ai: 14 Gen: 79
11828 Sim Starting
11829 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
11830 Ai: 15 Gen: 79
11831 Sim Starting
11832 Sim over Total pop = 0 Tick Complete = 2739
    Fitness = 11.65000000000105
11833 Ai: 16 Gen: 79
11834 Sim Starting
11835 Sim over Total pop = 0 Tick Complete = 11825
    Fitness = 1771.4999999999661
11836 Ai: 17 Gen: 79
11837 Sim Starting
11838 Sim over Total pop = 0 Tick Complete = 13981
    Fitness = 782.2999999999889
11839 Ai: 18 Gen: 79
11840 Sim Starting
11841 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11842 Ai: 19 Gen: 79
11843 Sim Starting
11844 Sim over Total pop = 0 Tick Complete = 13695
    Fitness = 1338.8000000000247
11845 Ai: 20 Gen: 79
11846 Sim Starting
11847 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
11848 Ai: 21 Gen: 79
11849 Sim Starting
```

```
11850 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 681.75
11851 Ai: 22 Gen: 79
11852 Sim Starting
11853 Sim over Total pop = 0 Tick Complete = 6743
    Fitness = 531.5000000000067
11854 Ai: 23 Gen: 79
11855 Sim Starting
11856 Sim over Total pop = 0 Tick Complete = 6204
    Fitness = 225.60000000000153
11857 Ai: 24 Gen: 79
11858 Sim Starting
11859 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -178.10000000000002
11860 Ai: 25 Gen: 79
11861 Sim Starting
11862 Sim over Total pop = 0 Tick Complete = 5434
    Fitness = 722.5499999999936
11863 Ai: 26 Gen: 79
11864 Sim Starting
11865 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 4035.249999999806
11866 Ai: 27 Gen: 79
11867 Sim Starting
11868 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2410.4999999998104
11869 Ai: 28 Gen: 79
11870 Sim Starting
11871 Sim over Total pop = 0 Tick Complete = 5219
    Fitness = 599.1000000000063
11872 Ai: 29 Gen: 79
11873 Sim Starting
11874 Sim over Total pop = 0 Tick Complete = 9779
    Fitness = 924.8500000000033
11875 Ai: 30 Gen: 79
11876 Sim Starting
11877 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11878 Ai: 31 Gen: 79
11879 Sim Starting
11880 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11881 Ai: 32 Gen: 79
11882 Sim Starting
```

```
11883 Sim over Total pop = 0 Tick Complete = 13024
    Fitness = 696.0
11884 Ai: 33 Gen: 79
11885 Sim Starting
11886 Sim over Total pop = 0 Tick Complete = 9669
    Fitness = 1470.150000000033
11887 Ai: 34 Gen: 79
11888 Sim Starting
11889 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 1667.500000000095
11890 Ai: 35 Gen: 79
11891 Sim Starting
11892 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3681.499999999621
11893 Ai: 36 Gen: 79
11894 Sim Starting
11895 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
11896 Ai: 37 Gen: 79
11897 Sim Starting
11898 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2144.699999999707
11899 Ai: 38 Gen: 79
11900 Sim Starting
11901 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
11902 Ai: 39 Gen: 79
11903 Sim Starting
11904 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1030.800000000263
11905 Ai: 40 Gen: 79
11906 Sim Starting
11907 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
11908 Ai: 41 Gen: 79
11909 Sim Starting
11910 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1436.899999999628
11911 Ai: 42 Gen: 79
11912 Sim Starting
11913 Sim over Total pop = 0 Tick Complete = 514
    Fitness = -204.0
11914 Ai: 43 Gen: 79
11915 Sim Starting
```

```
11916 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11917 Ai: 44 Gen: 79
11918 Sim Starting
11919 Sim over Total pop = 0 Tick Complete = 14311
    Fitness = 679.1500000000059
11920 Ai: 45 Gen: 79
11921 Sim Starting
11922 Sim over Total pop = 0 Tick Complete = 15906
    Fitness = 1111.8000000000045
11923 Ai: 46 Gen: 79
11924 Sim Starting
11925 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3351.499999999671
11926 Ai: 47 Gen: 79
11927 Sim Starting
11928 Sim over Total pop = 0 Tick Complete = 1515
    Fitness = 214.1999999999965
11929 Ai: 48 Gen: 79
11930 Sim Starting
11931 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -185.4500000000002
11932 Ai: 49 Gen: 79
11933 Sim Starting
11934 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11935 Ai: 0 Gen: 80
11936 Sim Starting
11937 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 4030.799999995614
11938 Ai: 1 Gen: 80
11939 Sim Starting
11940 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
11941 Ai: 2 Gen: 80
11942 Sim Starting
11943 Sim over Total pop = 0 Tick Complete = 9449
    Fitness = 967.39999999977
11944 Ai: 3 Gen: 80
11945 Sim Starting
11946 Sim over Total pop = 0 Tick Complete = 16401
    Fitness = 1832.3500000000672
11947 Ai: 4 Gen: 80
11948 Sim Starting
```

```
11949 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
11950 Ai: 5 Gen: 80
11951 Sim Starting
11952 Sim over Total pop = 0 Tick Complete = 6193
    Fitness = 848.8500000000125
11953 Ai: 6 Gen: 80
11954 Sim Starting
11955 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1308.8499999999826
11956 Ai: 7 Gen: 80
11957 Sim Starting
11958 Sim over Total pop = 0 Tick Complete = 6465
    Fitness = 753.400000000006
11959 Ai: 8 Gen: 80
11960 Sim Starting
11961 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 154.5
11962 Ai: 9 Gen: 80
11963 Sim Starting
11964 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.15
11965 Ai: 10 Gen: 80
11966 Sim Starting
11967 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2681.05000000021
11968 Ai: 11 Gen: 80
11969 Sim Starting
11970 Sim over Total pop = 0 Tick Complete = 4507
    Fitness = 989.3000000000071
11971 Ai: 12 Gen: 80
11972 Sim Starting
11973 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 174.049999999996
11974 Ai: 13 Gen: 80
11975 Sim Starting
11976 Sim over Total pop = 0 Tick Complete = 16335
    Fitness = 1284.8999999999598
11977 Ai: 14 Gen: 80
11978 Sim Starting
11979 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
11980 Ai: 15 Gen: 80
11981 Sim Starting
```

```
11982 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2024.2000000000794
11983 Ai: 16 Gen: 80
11984 Sim Starting
11985 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
11986 Ai: 17 Gen: 80
11987 Sim Starting
11988 Sim over Total pop = 0 Tick Complete = 19899
    Fitness = 1116.8
11989 Ai: 18 Gen: 80
11990 Sim Starting
11991 Sim over Total pop = 0 Tick Complete = 4004
    Fitness = 118.85
11992 Ai: 19 Gen: 80
11993 Sim Starting
11994 Sim over Total pop = 0 Tick Complete = 16060
    Fitness = 1425.8499999999526
11995 Ai: 20 Gen: 80
11996 Sim Starting
11997 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2618.0999999999476
11998 Ai: 21 Gen: 80
11999 Sim Starting
12000 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12001 Ai: 22 Gen: 80
12002 Sim Starting
12003 Sim over Total pop = 0 Tick Complete = 7920
    Fitness = 1262.800000000017
12004 Ai: 23 Gen: 80
12005 Sim Starting
12006 Sim over Total pop = 0 Tick Complete = 5181
    Fitness = 795.6000000000093
12007 Ai: 24 Gen: 80
12008 Sim Starting
12009 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2302.0999999999194
12010 Ai: 25 Gen: 80
12011 Sim Starting
12012 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3426.1999999996538
12013 Ai: 26 Gen: 80
12014 Sim Starting
```

```
12015 Sim over Total pop = 0 Tick Complete = 19035
    Fitness = 3194.749999999973
12016 Ai: 27 Gen: 80
12017 Sim Starting
12018 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12019 Ai: 28 Gen: 80
12020 Sim Starting
12021 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2440.499999998076
12022 Ai: 29 Gen: 80
12023 Sim Starting
12024 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12025 Ai: 30 Gen: 80
12026 Sim Starting
12027 Sim over Total pop = 0 Tick Complete = 19756
    Fitness = 846.4500000000205
12028 Ai: 31 Gen: 80
12029 Sim Starting
12030 Sim over Total pop = 0 Tick Complete = 11781
    Fitness = 1609.3500000000063
12031 Ai: 32 Gen: 80
12032 Sim Starting
12033 Sim over Total pop = 0 Tick Complete = 11550
    Fitness = 486.5000000000077
12034 Ai: 33 Gen: 80
12035 Sim Starting
12036 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12037 Ai: 34 Gen: 80
12038 Sim Starting
12039 Sim over Total pop = 0 Tick Complete = 8481
    Fitness = 492.6
12040 Ai: 35 Gen: 80
12041 Sim Starting
12042 Sim over Total pop = 0 Tick Complete = 8569
    Fitness = 1359.0000000000443
12043 Ai: 36 Gen: 80
12044 Sim Starting
12045 Sim over Total pop = 0 Tick Complete = 12606
    Fitness = 456.9500000000057
12046 Ai: 37 Gen: 80
12047 Sim Starting
```

```
12048 Sim over Total pop = 0 Tick Complete = 16027
    Fitness = 856.15
12049 Ai: 38 Gen: 80
12050 Sim Starting
12051 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 944.400000000241
12052 Ai: 39 Gen: 80
12053 Sim Starting
12054 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12055 Ai: 40 Gen: 80
12056 Sim Starting
12057 Sim over Total pop = 0 Tick Complete = 10670
    Fitness = 1146.0999999999967
12058 Ai: 41 Gen: 80
12059 Sim Starting
12060 Sim over Total pop = 0 Tick Complete = 6402
    Fitness = 480.4000000000056
12061 Ai: 42 Gen: 80
12062 Sim Starting
12063 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 1635.3499999999715
12064 Ai: 43 Gen: 80
12065 Sim Starting
12066 Sim over Total pop = 9 Tick Complete = 20001
    Fitness = 4226.399999999824
12067 Ai: 44 Gen: 80
12068 Sim Starting
12069 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12070 Ai: 45 Gen: 80
12071 Sim Starting
12072 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 1237.1999999999643
12073 Ai: 46 Gen: 80
12074 Sim Starting
12075 Sim over Total pop = 0 Tick Complete = 7510
    Fitness = 860.6999999999828
12076 Ai: 47 Gen: 80
12077 Sim Starting
12078 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -199.75
12079 Ai: 48 Gen: 80
12080 Sim Starting
```

```
12081 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2711.649999999994
12082 Ai: 49 Gen: 80
12083 Sim Starting
12084 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -203.0
12085 Ai: 0 Gen: 81
12086 Sim Starting
12087 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2487.449999999784
12088 Ai: 1 Gen: 81
12089 Sim Starting
12090 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1779.9000000000829
12091 Ai: 2 Gen: 81
12092 Sim Starting
12093 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2329.49999999982
12094 Ai: 3 Gen: 81
12095 Sim Starting
12096 Sim over Total pop = 0 Tick Complete = 585
    Fitness = 153.7
12097 Ai: 4 Gen: 81
12098 Sim Starting
12099 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3638.2999999996277
12100 Ai: 5 Gen: 81
12101 Sim Starting
12102 Sim over Total pop = 0 Tick Complete = 3891
    Fitness = 432.15000000000214
12103 Ai: 6 Gen: 81
12104 Sim Starting
12105 Sim over Total pop = 0 Tick Complete = 14806
    Fitness = 798.0000000000194
12106 Ai: 7 Gen: 81
12107 Sim Starting
12108 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 135.5
12109 Ai: 8 Gen: 81
12110 Sim Starting
12111 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 194.00000000000006
12112 Ai: 9 Gen: 81
12113 Sim Starting
```

```
12114 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12115 Ai: 10 Gen: 81
12116 Sim Starting
12117 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = -37.80000000000003
12118 Ai: 11 Gen: 81
12119 Sim Starting
12120 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2415.99999999817
12121 Ai: 12 Gen: 81
12122 Sim Starting
12123 Sim over Total pop = 0 Tick Complete = 12086
    Fitness = 854.849999999823
12124 Ai: 13 Gen: 81
12125 Sim Starting
12126 Sim over Total pop = 0 Tick Complete = 8899
    Fitness = 782.200000000016
12127 Ai: 14 Gen: 81
12128 Sim Starting
12129 Sim over Total pop = 0 Tick Complete = 14762
    Fitness = 1453.000000000573
12130 Ai: 15 Gen: 81
12131 Sim Starting
12132 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1767.350000000008
12133 Ai: 16 Gen: 81
12134 Sim Starting
12135 Sim over Total pop = 0 Tick Complete = 3286
    Fitness = 174.9499999999985
12136 Ai: 17 Gen: 81
12137 Sim Starting
12138 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3247.49999999684
12139 Ai: 18 Gen: 81
12140 Sim Starting
12141 Sim over Total pop = 0 Tick Complete = 12196
    Fitness = 1239.650000000035
12142 Ai: 19 Gen: 81
12143 Sim Starting
12144 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2304.499999998286
12145 Ai: 20 Gen: 81
12146 Sim Starting
```

```
12147 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2014.9999999998877
12148 Ai: 21 Gen: 81
12149 Sim Starting
12150 Sim over Total pop = 0 Tick Complete = 577
    Fitness = -79.5
12151 Ai: 22 Gen: 81
12152 Sim Starting
12153 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 4002.499999995734
12154 Ai: 23 Gen: 81
12155 Sim Starting
12156 Sim over Total pop = 0 Tick Complete = 976
    Fitness = 361.5
12157 Ai: 24 Gen: 81
12158 Sim Starting
12159 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1061.049999999797
12160 Ai: 25 Gen: 81
12161 Sim Starting
12162 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3845.74999999839
12163 Ai: 26 Gen: 81
12164 Sim Starting
12165 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
12166 Ai: 27 Gen: 81
12167 Sim Starting
12168 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3249.1500000002948
12169 Ai: 28 Gen: 81
12170 Sim Starting
12171 Sim over Total pop = 0 Tick Complete = 877
    Fitness = -172.55
12172 Ai: 29 Gen: 81
12173 Sim Starting
12174 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -203.1
12175 Ai: 30 Gen: 81
12176 Sim Starting
12177 Sim over Total pop = 0 Tick Complete = 11198
    Fitness = 1143.750000000014
12178 Ai: 31 Gen: 81
12179 Sim Starting
```

```
12180 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 4019.899999999559
12181 Ai: 32 Gen: 81
12182 Sim Starting
12183 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12184 Ai: 33 Gen: 81
12185 Sim Starting
12186 Sim over Total pop = 0 Tick Complete = 3784
    Fitness = 946.5500000000076
12187 Ai: 34 Gen: 81
12188 Sim Starting
12189 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3353.499999999665
12190 Ai: 35 Gen: 81
12191 Sim Starting
12192 Sim over Total pop = 0 Tick Complete = 10513
    Fitness = 356.300000000002
12193 Ai: 36 Gen: 81
12194 Sim Starting
12195 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12196 Ai: 37 Gen: 81
12197 Sim Starting
12198 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1905.249999999445
12199 Ai: 38 Gen: 81
12200 Sim Starting
12201 Sim over Total pop = 0 Tick Complete = 10117
    Fitness = 987.349999999817
12202 Ai: 39 Gen: 81
12203 Sim Starting
12204 Sim over Total pop = 0 Tick Complete = 19481
    Fitness = 1011.5000000000275
12205 Ai: 40 Gen: 81
12206 Sim Starting
12207 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3021.299999999721
12208 Ai: 41 Gen: 81
12209 Sim Starting
12210 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12211 Ai: 42 Gen: 81
12212 Sim Starting
```

```
12213 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12214 Ai: 43 Gen: 81
12215 Sim Starting
12216 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12217 Ai: 44 Gen: 81
12218 Sim Starting
12219 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.5
12220 Ai: 45 Gen: 81
12221 Sim Starting
12222 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2185.25000000014
12223 Ai: 46 Gen: 81
12224 Sim Starting
12225 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12226 Ai: 47 Gen: 81
12227 Sim Starting
12228 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12229 Ai: 48 Gen: 81
12230 Sim Starting
12231 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -195.5
12232 Ai: 49 Gen: 81
12233 Sim Starting
12234 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12235 Ai: 0 Gen: 82
12236 Sim Starting
12237 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2865.999999997444
12238 Ai: 1 Gen: 82
12239 Sim Starting
12240 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 4136.999999999587
12241 Ai: 2 Gen: 82
12242 Sim Starting
12243 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
12244 Ai: 3 Gen: 82
12245 Sim Starting
```

```
12246 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
12247 Ai: 4 Gen: 82
12248 Sim Starting
12249 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 931.399999999995
12250 Ai: 5 Gen: 82
12251 Sim Starting
12252 Sim over Total pop = 0 Tick Complete = 6567
    Fitness = 714.899999999998
12253 Ai: 6 Gen: 82
12254 Sim Starting
12255 Sim over Total pop = 0 Tick Complete = 11220
    Fitness = 1006.4499999999821
12256 Ai: 7 Gen: 82
12257 Sim Starting
12258 Sim over Total pop = 0 Tick Complete = 6622
    Fitness = 238.800000000002
12259 Ai: 8 Gen: 82
12260 Sim Starting
12261 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2069.099999999929
12262 Ai: 9 Gen: 82
12263 Sim Starting
12264 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 2463.749999999986
12265 Ai: 10 Gen: 82
12266 Sim Starting
12267 Sim over Total pop = 0 Tick Complete = 9289
    Fitness = 1246.900000000458
12268 Ai: 11 Gen: 82
12269 Sim Starting
12270 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2512.999999997954
12271 Ai: 12 Gen: 82
12272 Sim Starting
12273 Sim over Total pop = 0 Tick Complete = 13142
    Fitness = 1713.300000000898
12274 Ai: 13 Gen: 82
12275 Sim Starting
12276 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 161.599999999999
12277 Ai: 14 Gen: 82
12278 Sim Starting
```

```
12279 Sim over Total pop = 0 Tick Complete = 12881
    Fitness = 1205.50000000000327
12280 Ai: 15 Gen: 82
12281 Sim Starting
12282 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1292.0999999999867
12283 Ai: 16 Gen: 82
12284 Sim Starting
12285 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1965.999999999838
12286 Ai: 17 Gen: 82
12287 Sim Starting
12288 Sim over Total pop = 0 Tick Complete = 12061
    Fitness = 541.7999999999907
12289 Ai: 18 Gen: 82
12290 Sim Starting
12291 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2442.799999999807
12292 Ai: 19 Gen: 82
12293 Sim Starting
12294 Sim over Total pop = 0 Tick Complete = 580
    Fitness = -129.0
12295 Ai: 20 Gen: 82
12296 Sim Starting
12297 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 1666.499999999802
12298 Ai: 21 Gen: 82
12299 Sim Starting
12300 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2745.999999997626
12301 Ai: 22 Gen: 82
12302 Sim Starting
12303 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
12304 Ai: 23 Gen: 82
12305 Sim Starting
12306 Sim over Total pop = 0 Tick Complete = 14806
    Fitness = 1838.999999998875
12307 Ai: 24 Gen: 82
12308 Sim Starting
12309 Sim over Total pop = 0 Tick Complete = 4279
    Fitness = 130.2999999999978
12310 Ai: 25 Gen: 82
12311 Sim Starting
```

```
12312 Sim over Total pop = 0 Tick Complete = 13420
    Fitness = 1420.0000000000355
12313 Ai: 26 Gen: 82
12314 Sim Starting
12315 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 4208.699999999942
12316 Ai: 27 Gen: 82
12317 Sim Starting
12318 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3830.1999999995996
12319 Ai: 28 Gen: 82
12320 Sim Starting
12321 Sim over Total pop = 0 Tick Complete = 577
    Fitness = 130.5
12322 Ai: 29 Gen: 82
12323 Sim Starting
12324 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2620.4999999997804
12325 Ai: 30 Gen: 82
12326 Sim Starting
12327 Sim over Total pop = 0 Tick Complete = 10645
    Fitness = 1446.2500000000232
12328 Ai: 31 Gen: 82
12329 Sim Starting
12330 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12331 Ai: 32 Gen: 82
12332 Sim Starting
12333 Sim over Total pop = 0 Tick Complete = 2948
    Fitness = 15.69999999999754
12334 Ai: 33 Gen: 82
12335 Sim Starting
12336 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2776.999999999753
12337 Ai: 34 Gen: 82
12338 Sim Starting
12339 Sim over Total pop = 0 Tick Complete = 8247
    Fitness = 255.1500000000018
12340 Ai: 35 Gen: 82
12341 Sim Starting
12342 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 757.4
12343 Ai: 36 Gen: 82
12344 Sim Starting
```

```
12345 Sim over Total pop = 0 Tick Complete = 6655
    Fitness = 130.0
12346 Ai: 37 Gen: 82
12347 Sim Starting
12348 Sim over Total pop = 0 Tick Complete = 10538
    Fitness = 1123.5500000000052
12349 Ai: 38 Gen: 82
12350 Sim Starting
12351 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12352 Ai: 39 Gen: 82
12353 Sim Starting
12354 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12355 Ai: 40 Gen: 82
12356 Sim Starting
12357 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1090.5000000000164
12358 Ai: 41 Gen: 82
12359 Sim Starting
12360 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2475.4000000000015
12361 Ai: 42 Gen: 82
12362 Sim Starting
12363 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
12364 Ai: 43 Gen: 82
12365 Sim Starting
12366 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12367 Ai: 44 Gen: 82
12368 Sim Starting
12369 Sim over Total pop = 0 Tick Complete = 14520
    Fitness = 1555.7000000000576
12370 Ai: 45 Gen: 82
12371 Sim Starting
12372 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.150000000021
12373 Ai: 46 Gen: 82
12374 Sim Starting
12375 Sim over Total pop = 0 Tick Complete = 6817
    Fitness = 795.1499999999875
12376 Ai: 47 Gen: 82
12377 Sim Starting
```

```
12378 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2973.2999999997282
12379 Ai: 48 Gen: 82
12380 Sim Starting
12381 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12382 Ai: 49 Gen: 82
12383 Sim Starting
12384 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12385 Ai: 0 Gen: 83
12386 Sim Starting
12387 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3634.799999999848
12388 Ai: 1 Gen: 83
12389 Sim Starting
12390 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2464.399999999803
12391 Ai: 2 Gen: 83
12392 Sim Starting
12393 Sim over Total pop = 0 Tick Complete = 11720
    Fitness = 1200.6000000000085
12394 Ai: 3 Gen: 83
12395 Sim Starting
12396 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -172.2
12397 Ai: 4 Gen: 83
12398 Sim Starting
12399 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2355.9999999998245
12400 Ai: 5 Gen: 83
12401 Sim Starting
12402 Sim over Total pop = 0 Tick Complete = 5750
    Fitness = 1162.199999999973
12403 Ai: 6 Gen: 83
12404 Sim Starting
12405 Sim over Total pop = 0 Tick Complete = 13145
    Fitness = 1293.1999999999643
12406 Ai: 7 Gen: 83
12407 Sim Starting
12408 Sim over Total pop = 0 Tick Complete = 14245
    Fitness = 1420.0000000000036
12409 Ai: 8 Gen: 83
12410 Sim Starting
```

```
12411 Sim over Total pop = 0 Tick Complete = 19657
    Fitness = 1760.90000000000774
12412 Ai: 9 Gen: 83
12413 Sim Starting
12414 Sim over Total pop = 0 Tick Complete = 6743
    Fitness = 521.65
12415 Ai: 10 Gen: 83
12416 Sim Starting
12417 Sim over Total pop = 0 Tick Complete = 539
    Fitness = -201.25
12418 Ai: 11 Gen: 83
12419 Sim Starting
12420 Sim over Total pop = 0 Tick Complete = 5192
    Fitness = 595.7000000000079
12421 Ai: 12 Gen: 83
12422 Sim Starting
12423 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12424 Ai: 13 Gen: 83
12425 Sim Starting
12426 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3836.349999998144
12427 Ai: 14 Gen: 83
12428 Sim Starting
12429 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -203.15
12430 Ai: 15 Gen: 83
12431 Sim Starting
12432 Sim over Total pop = 0 Tick Complete = 9284
    Fitness = 1266.899999999849
12433 Ai: 16 Gen: 83
12434 Sim Starting
12435 Sim over Total pop = 0 Tick Complete = 2629
    Fitness = 389.299999999991
12436 Ai: 17 Gen: 83
12437 Sim Starting
12438 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
12439 Ai: 18 Gen: 83
12440 Sim Starting
12441 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = -133.5000000000002
12442 Ai: 19 Gen: 83
12443 Sim Starting
```

```
12444 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12445 Ai: 20 Gen: 83
12446 Sim Starting
12447 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3369.050000000143
12448 Ai: 21 Gen: 83
12449 Sim Starting
12450 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12451 Ai: 22 Gen: 83
12452 Sim Starting
12453 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12454 Ai: 23 Gen: 83
12455 Sim Starting
12456 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1387.3999999999614
12457 Ai: 24 Gen: 83
12458 Sim Starting
12459 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
12460 Ai: 25 Gen: 83
12461 Sim Starting
12462 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -165.0
12463 Ai: 26 Gen: 83
12464 Sim Starting
12465 Sim over Total pop = 0 Tick Complete = 7678
    Fitness = 254.0499999999975
12466 Ai: 27 Gen: 83
12467 Sim Starting
12468 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 4318.549999999883
12469 Ai: 28 Gen: 83
12470 Sim Starting
12471 Sim over Total pop = 9 Tick Complete = 20001
    Fitness = 4073.8999999998014
12472 Ai: 29 Gen: 83
12473 Sim Starting
12474 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2440.499999999806
12475 Ai: 30 Gen: 83
12476 Sim Starting
```

```
12477 Sim over Total pop = 0 Tick Complete = 19626
    Fitness = 3054.449999999922
12478 Ai: 31 Gen: 83
12479 Sim Starting
12480 Sim over Total pop = 0 Tick Complete = 2992
    Fitness = 582.800000000025
12481 Ai: 32 Gen: 83
12482 Sim Starting
12483 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2136.050000000135
12484 Ai: 33 Gen: 83
12485 Sim Starting
12486 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12487 Ai: 34 Gen: 83
12488 Sim Starting
12489 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -152.85
12490 Ai: 35 Gen: 83
12491 Sim Starting
12492 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2146.499999999704
12493 Ai: 36 Gen: 83
12494 Sim Starting
12495 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
12496 Ai: 37 Gen: 83
12497 Sim Starting
12498 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
12499 Ai: 38 Gen: 83
12500 Sim Starting
12501 Sim over Total pop = 0 Tick Complete = 10032
    Fitness = 1604.800000000359
12502 Ai: 39 Gen: 83
12503 Sim Starting
12504 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1300.900000000128
12505 Ai: 40 Gen: 83
12506 Sim Starting
12507 Sim over Total pop = 0 Tick Complete = 6135
    Fitness = 634.450000000021
12508 Ai: 41 Gen: 83
12509 Sim Starting
```

```
12510 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1930.499999999884
12511 Ai: 42 Gen: 83
12512 Sim Starting
12513 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 317.0
12514 Ai: 43 Gen: 83
12515 Sim Starting
12516 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12517 Ai: 44 Gen: 83
12518 Sim Starting
12519 Sim over Total pop = 0 Tick Complete = 6666
    Fitness = 654.7000000000103
12520 Ai: 45 Gen: 83
12521 Sim Starting
12522 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 4027.3000000000156
12523 Ai: 46 Gen: 83
12524 Sim Starting
12525 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2353.199999999876
12526 Ai: 47 Gen: 83
12527 Sim Starting
12528 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2235.9999999998436
12529 Ai: 48 Gen: 83
12530 Sim Starting
12531 Sim over Total pop = 0 Tick Complete = 17690
    Fitness = 2694.800000000146
12532 Ai: 49 Gen: 83
12533 Sim Starting
12534 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
12535 Ai: 0 Gen: 84
12536 Sim Starting
12537 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
12538 Ai: 1 Gen: 84
12539 Sim Starting
12540 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3084.099999999777
12541 Ai: 2 Gen: 84
12542 Sim Starting
```

```
12543 Sim over Total pop = 0 Tick Complete = 18331
    Fitness = 2471.7500000000864
12544 Ai: 3 Gen: 84
12545 Sim Starting
12546 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2918.2999999998196
12547 Ai: 4 Gen: 84
12548 Sim Starting
12549 Sim over Total pop = 0 Tick Complete = 12141
    Fitness = 1574.6499999999983
12550 Ai: 5 Gen: 84
12551 Sim Starting
12552 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 465.0
12553 Ai: 6 Gen: 84
12554 Sim Starting
12555 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2176.5000000000246
12556 Ai: 7 Gen: 84
12557 Sim Starting
12558 Sim over Total pop = 0 Tick Complete = 19610
    Fitness = 675.2499999999992
12559 Ai: 8 Gen: 84
12560 Sim Starting
12561 Sim over Total pop = 0 Tick Complete = 10032
    Fitness = 967.3500000000271
12562 Ai: 9 Gen: 84
12563 Sim Starting
12564 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12565 Ai: 10 Gen: 84
12566 Sim Starting
12567 Sim over Total pop = 0 Tick Complete = 6732
    Fitness = 764.9500000000115
12568 Ai: 11 Gen: 84
12569 Sim Starting
12570 Sim over Total pop = 0 Tick Complete = 15895
    Fitness = 1556.9499999999193
12571 Ai: 12 Gen: 84
12572 Sim Starting
12573 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 159.1
12574 Ai: 13 Gen: 84
12575 Sim Starting
```

```
12576 Sim over Total pop = 0 Tick Complete = 17853
    Fitness = 1797.0999999999299
12577 Ai: 14 Gen: 84
12578 Sim Starting
12579 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1417.249999999947
12580 Ai: 15 Gen: 84
12581 Sim Starting
12582 Sim over Total pop = 0 Tick Complete = 12075
    Fitness = 1152.2000000000307
12583 Ai: 16 Gen: 84
12584 Sim Starting
12585 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2012.249999999877
12586 Ai: 17 Gen: 84
12587 Sim Starting
12588 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2893.3999999997404
12589 Ai: 18 Gen: 84
12590 Sim Starting
12591 Sim over Total pop = 0 Tick Complete = 11390
    Fitness = 1565.2500000000405
12592 Ai: 19 Gen: 84
12593 Sim Starting
12594 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1514.6499999999473
12595 Ai: 20 Gen: 84
12596 Sim Starting
12597 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -203.1
12598 Ai: 21 Gen: 84
12599 Sim Starting
12600 Sim over Total pop = 0 Tick Complete = 13871
    Fitness = 1288.25
12601 Ai: 22 Gen: 84
12602 Sim Starting
12603 Sim over Total pop = 0 Tick Complete = 13794
    Fitness = 1873.700000000072
12604 Ai: 23 Gen: 84
12605 Sim Starting
12606 Sim over Total pop = 0 Tick Complete = 17545
    Fitness = 1912.149999999876
12607 Ai: 24 Gen: 84
12608 Sim Starting
```

```
12609 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3059.6499999999005
12610 Ai: 25 Gen: 84
12611 Sim Starting
12612 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2509.4999999997963
12613 Ai: 26 Gen: 84
12614 Sim Starting
12615 Sim over Total pop = 0 Tick Complete = 1193
    Fitness = 225.5
12616 Ai: 27 Gen: 84
12617 Sim Starting
12618 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3807.6999999995996
12619 Ai: 28 Gen: 84
12620 Sim Starting
12621 Sim over Total pop = 0 Tick Complete = 2615
    Fitness = 277.7
12622 Ai: 29 Gen: 84
12623 Sim Starting
12624 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2419.2999999999165
12625 Ai: 30 Gen: 84
12626 Sim Starting
12627 Sim over Total pop = 0 Tick Complete = 13725
    Fitness = 2039.3000000001284
12628 Ai: 31 Gen: 84
12629 Sim Starting
12630 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 166.3000000000003
12631 Ai: 32 Gen: 84
12632 Sim Starting
12633 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2110.999999998718
12634 Ai: 33 Gen: 84
12635 Sim Starting
12636 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3182.7999999996937
12637 Ai: 34 Gen: 84
12638 Sim Starting
12639 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2715.649999999981
12640 Ai: 35 Gen: 84
12641 Sim Starting
```

```
12642 Sim over Total pop = 0 Tick Complete = 9275
    Fitness = 1215.999999999998
12643 Ai: 36 Gen: 84
12644 Sim Starting
12645 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -202.55
12646 Ai: 37 Gen: 84
12647 Sim Starting
12648 Sim over Total pop = 0 Tick Complete = 14245
    Fitness = 1387.500000000031
12649 Ai: 38 Gen: 84
12650 Sim Starting
12651 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12652 Ai: 39 Gen: 84
12653 Sim Starting
12654 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 638.999999999999
12655 Ai: 40 Gen: 84
12656 Sim Starting
12657 Sim over Total pop = 0 Tick Complete = 13420
    Fitness = 1445.000000000038
12658 Ai: 41 Gen: 84
12659 Sim Starting
12660 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 2604.099999999503
12661 Ai: 42 Gen: 84
12662 Sim Starting
12663 Sim over Total pop = 0 Tick Complete = 13428
    Fitness = 2151.149999999883
12664 Ai: 43 Gen: 84
12665 Sim Starting
12666 Sim over Total pop = 0 Tick Complete = 9603
    Fitness = 540.5
12667 Ai: 44 Gen: 84
12668 Sim Starting
12669 Sim over Total pop = 0 Tick Complete = 19591
    Fitness = 3275.449999996533
12670 Ai: 45 Gen: 84
12671 Sim Starting
12672 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12673 Ai: 46 Gen: 84
12674 Sim Starting
```

```
12675 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1122.3000000000125
12676 Ai: 47 Gen: 84
12677 Sim Starting
12678 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1735.7000000000987
12679 Ai: 48 Gen: 84
12680 Sim Starting
12681 Sim over Total pop = 0 Tick Complete = 4691
    Fitness = 125.45000000000081
12682 Ai: 49 Gen: 84
12683 Sim Starting
12684 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 3313.9999999999077
12685 Ai: 0 Gen: 85
12686 Sim Starting
12687 Sim over Total pop = 0 Tick Complete = 18092
    Fitness = 2246.5999999999035
12688 Ai: 1 Gen: 85
12689 Sim Starting
12690 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2075.8500000000113
12691 Ai: 2 Gen: 85
12692 Sim Starting
12693 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 954.8000000000239
12694 Ai: 3 Gen: 85
12695 Sim Starting
12696 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2225.399999999844
12697 Ai: 4 Gen: 85
12698 Sim Starting
12699 Sim over Total pop = 0 Tick Complete = 5370
    Fitness = 612.699999999982
12700 Ai: 5 Gen: 85
12701 Sim Starting
12702 Sim over Total pop = 0 Tick Complete = 13442
    Fitness = 1765.5500000000334
12703 Ai: 6 Gen: 85
12704 Sim Starting
12705 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3476.90000000001747
12706 Ai: 7 Gen: 85
12707 Sim Starting
```

```
12708 Sim over Total pop = 0 Tick Complete = 10392
    Fitness = 1435.7999999999904
12709 Ai: 8 Gen: 85
12710 Sim Starting
12711 Sim over Total pop = 0 Tick Complete = 12595
    Fitness = 1401.2500000000327
12712 Ai: 9 Gen: 85
12713 Sim Starting
12714 Sim over Total pop = 0 Tick Complete = 19250
    Fitness = 2568.4999999999964
12715 Ai: 10 Gen: 85
12716 Sim Starting
12717 Sim over Total pop = 0 Tick Complete = 9009
    Fitness = 1240.2999999999695
12718 Ai: 11 Gen: 85
12719 Sim Starting
12720 Sim over Total pop = 0 Tick Complete = 17017
    Fitness = 1959.5000000000937
12721 Ai: 12 Gen: 85
12722 Sim Starting
12723 Sim over Total pop = 0 Tick Complete = 6116
    Fitness = 1313.3999999999926
12724 Ai: 13 Gen: 85
12725 Sim Starting
12726 Sim over Total pop = 0 Tick Complete = 19503
    Fitness = 1090.8
12727 Ai: 14 Gen: 85
12728 Sim Starting
12729 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 315.75
12730 Ai: 15 Gen: 85
12731 Sim Starting
12732 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1661.9500000000844
12733 Ai: 16 Gen: 85
12734 Sim Starting
12735 Sim over Total pop = 0 Tick Complete = 1856
    Fitness = 527.5000000000026
12736 Ai: 17 Gen: 85
12737 Sim Starting
12738 Sim over Total pop = 0 Tick Complete = 14564
    Fitness = 2433.799999999954
12739 Ai: 18 Gen: 85
12740 Sim Starting
```

```
12741 Sim over Total pop = 0 Tick Complete = 9119
    Fitness = 1007.8000000000302
12742 Ai: 19 Gen: 85
12743 Sim Starting
12744 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 767.8000000000061
12745 Ai: 20 Gen: 85
12746 Sim Starting
12747 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3244.9500000000494
12748 Ai: 21 Gen: 85
12749 Sim Starting
12750 Sim over Total pop = 0 Tick Complete = 580
    Fitness = -77.0
12751 Ai: 22 Gen: 85
12752 Sim Starting
12753 Sim over Total pop = 0 Tick Complete = 11297
    Fitness = 915.5999999999779
12754 Ai: 23 Gen: 85
12755 Sim Starting
12756 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1961.1500000001088
12757 Ai: 24 Gen: 85
12758 Sim Starting
12759 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3921.499999999585
12760 Ai: 25 Gen: 85
12761 Sim Starting
12762 Sim over Total pop = 0 Tick Complete = 1930
    Fitness = 298.4999999999999
12763 Ai: 26 Gen: 85
12764 Sim Starting
12765 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 238.5
12766 Ai: 27 Gen: 85
12767 Sim Starting
12768 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3503.749999999664
12769 Ai: 28 Gen: 85
12770 Sim Starting
12771 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3105.999999999709
12772 Ai: 29 Gen: 85
12773 Sim Starting
```

```
12774 Sim over Total pop = 0 Tick Complete = 18639
    Fitness = 2728.0499999997805
12775 Ai: 30 Gen: 85
12776 Sim Starting
12777 Sim over Total pop = 0 Tick Complete = 770
    Fitness = -34.65
12778 Ai: 31 Gen: 85
12779 Sim Starting
12780 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12781 Ai: 32 Gen: 85
12782 Sim Starting
12783 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12784 Ai: 33 Gen: 85
12785 Sim Starting
12786 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 134.95
12787 Ai: 34 Gen: 85
12788 Sim Starting
12789 Sim over Total pop = 0 Tick Complete = 12804
    Fitness = 916.65
12790 Ai: 35 Gen: 85
12791 Sim Starting
12792 Sim over Total pop = 0 Tick Complete = 18546
    Fitness = 2612.600000000052
12793 Ai: 36 Gen: 85
12794 Sim Starting
12795 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 1238.8499999999642
12796 Ai: 37 Gen: 85
12797 Sim Starting
12798 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 949.7000000000246
12799 Ai: 38 Gen: 85
12800 Sim Starting
12801 Sim over Total pop = 0 Tick Complete = 2623
    Fitness = 390.34999999999826
12802 Ai: 39 Gen: 85
12803 Sim Starting
12804 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1035.0
12805 Ai: 40 Gen: 85
12806 Sim Starting
```

```
12807 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12808 Ai: 41 Gen: 85
12809 Sim Starting
12810 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3678.2999999996186
12811 Ai: 42 Gen: 85
12812 Sim Starting
12813 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 196.0
12814 Ai: 43 Gen: 85
12815 Sim Starting
12816 Sim over Total pop = 0 Tick Complete = 14036
    Fitness = 2029.6500000000515
12817 Ai: 44 Gen: 85
12818 Sim Starting
12819 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
12820 Ai: 45 Gen: 85
12821 Sim Starting
12822 Sim over Total pop = 0 Tick Complete = 9152
    Fitness = 348.399999999996
12823 Ai: 46 Gen: 85
12824 Sim Starting
12825 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 82.0
12826 Ai: 47 Gen: 85
12827 Sim Starting
12828 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
12829 Ai: 48 Gen: 85
12830 Sim Starting
12831 Sim over Total pop = 0 Tick Complete = 10975
    Fitness = 421.249999999959
12832 Ai: 49 Gen: 85
12833 Sim Starting
12834 Sim over Total pop = 0 Tick Complete = 6259
    Fitness = 989.1000000000018
12835 Ai: 0 Gen: 86
12836 Sim Starting
12837 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2564.6500000000074
12838 Ai: 1 Gen: 86
12839 Sim Starting
```

```
12840 Sim over Total pop = 0 Tick Complete = 12867
    Fitness = 1818.300000000095
12841 Ai: 2 Gen: 86
12842 Sim Starting
12843 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3705.9999999996144
12844 Ai: 3 Gen: 86
12845 Sim Starting
12846 Sim over Total pop = 0 Tick Complete = 12867
    Fitness = 1239.6000000000279
12847 Ai: 4 Gen: 86
12848 Sim Starting
12849 Sim over Total pop = 0 Tick Complete = 5775
    Fitness = 688.000000000011
12850 Ai: 5 Gen: 86
12851 Sim Starting
12852 Sim over Total pop = 0 Tick Complete = 11110
    Fitness = 280.35
12853 Ai: 6 Gen: 86
12854 Sim Starting
12855 Sim over Total pop = 0 Tick Complete = 6270
    Fitness = 855.0
12856 Ai: 7 Gen: 86
12857 Sim Starting
12858 Sim over Total pop = 0 Tick Complete = 12320
    Fitness = 1241.100000000045
12859 Ai: 8 Gen: 86
12860 Sim Starting
12861 Sim over Total pop = 0 Tick Complete = 3586
    Fitness = 462.850000000036
12862 Ai: 9 Gen: 86
12863 Sim Starting
12864 Sim over Total pop = 0 Tick Complete = 13299
    Fitness = 1973.5000000000723
12865 Ai: 10 Gen: 86
12866 Sim Starting
12867 Sim over Total pop = 0 Tick Complete = 10252
    Fitness = 1124.8500000000001
12868 Ai: 11 Gen: 86
12869 Sim Starting
12870 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
12871 Ai: 12 Gen: 86
12872 Sim Starting
```

```
12873 Sim over Total pop = 0 Tick Complete = 5332
    Fitness = 647.2500000000064
12874 Ai: 13 Gen: 86
12875 Sim Starting
12876 Sim over Total pop = 0 Tick Complete = 15884
    Fitness = 2106.4000000000756
12877 Ai: 14 Gen: 86
12878 Sim Starting
12879 Sim over Total pop = 0 Tick Complete = 9119
    Fitness = 934.6500000000243
12880 Ai: 15 Gen: 86
12881 Sim Starting
12882 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1216.199999999999
12883 Ai: 16 Gen: 86
12884 Sim Starting
12885 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 2824.4000000000506
12886 Ai: 17 Gen: 86
12887 Sim Starting
12888 Sim over Total pop = 0 Tick Complete = 8739
    Fitness = 980.3000000000286
12889 Ai: 18 Gen: 86
12890 Sim Starting
12891 Sim over Total pop = 0 Tick Complete = 6732
    Fitness = 716.5
12892 Ai: 19 Gen: 86
12893 Sim Starting
12894 Sim over Total pop = 0 Tick Complete = 13904
    Fitness = 1031.3999999999737
12895 Ai: 20 Gen: 86
12896 Sim Starting
12897 Sim over Total pop = 0 Tick Complete = 17677
    Fitness = 2626.549999999869
12898 Ai: 21 Gen: 86
12899 Sim Starting
12900 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
12901 Ai: 22 Gen: 86
12902 Sim Starting
12903 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2648.6999999997784
12904 Ai: 23 Gen: 86
12905 Sim Starting
```

```
12906 Sim over Total pop = 0 Tick Complete = 13956
    Fitness = 1876.0000000001112
12907 Ai: 24 Gen: 86
12908 Sim Starting
12909 Sim over Total pop = 0 Tick Complete = 19459
    Fitness = 1513.900000000043
12910 Ai: 25 Gen: 86
12911 Sim Starting
12912 Sim over Total pop = 0 Tick Complete = 7095
    Fitness = 815.199999999992
12913 Ai: 26 Gen: 86
12914 Sim Starting
12915 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3537.6500000001056
12916 Ai: 27 Gen: 86
12917 Sim Starting
12918 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3079.499999999712
12919 Ai: 28 Gen: 86
12920 Sim Starting
12921 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 971.049999999776
12922 Ai: 29 Gen: 86
12923 Sim Starting
12924 Sim over Total pop = 0 Tick Complete = 3555
    Fitness = 460.3000000000365
12925 Ai: 30 Gen: 86
12926 Sim Starting
12927 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2684.099999999767
12928 Ai: 31 Gen: 86
12929 Sim Starting
12930 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12931 Ai: 32 Gen: 86
12932 Sim Starting
12933 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2410.499999998104
12934 Ai: 33 Gen: 86
12935 Sim Starting
12936 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
12937 Ai: 34 Gen: 86
12938 Sim Starting
```

```
12939 Sim over Total pop = 0 Tick Complete = 8998
    Fitness = 513.0
12940 Ai: 35 Gen: 86
12941 Sim Starting
12942 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
12943 Ai: 36 Gen: 86
12944 Sim Starting
12945 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 266.3
12946 Ai: 37 Gen: 86
12947 Sim Starting
12948 Sim over Total pop = 0 Tick Complete = 15664
    Fitness = 1722.4000000000115
12949 Ai: 38 Gen: 86
12950 Sim Starting
12951 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
12952 Ai: 39 Gen: 86
12953 Sim Starting
12954 Sim over Total pop = 0 Tick Complete = 12705
    Fitness = 1674.6999999999412
12955 Ai: 40 Gen: 86
12956 Sim Starting
12957 Sim over Total pop = 0 Tick Complete = 4356
    Fitness = 578.7499999999997
12958 Ai: 41 Gen: 86
12959 Sim Starting
12960 Sim over Total pop = 0 Tick Complete = 17666
    Fitness = 1529.2000000000628
12961 Ai: 42 Gen: 86
12962 Sim Starting
12963 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3180.199999999698
12964 Ai: 43 Gen: 86
12965 Sim Starting
12966 Sim over Total pop = 0 Tick Complete = 5750
    Fitness = 938.299999999991
12967 Ai: 44 Gen: 86
12968 Sim Starting
12969 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 632.0
12970 Ai: 45 Gen: 86
12971 Sim Starting
```

```
12972 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1835.5000000000782
12973 Ai: 46 Gen: 86
12974 Sim Starting
12975 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2844.6000000002377
12976 Ai: 47 Gen: 86
12977 Sim Starting
12978 Sim over Total pop = 0 Tick Complete = 4372
    Fitness = 1086.0499999999977
12979 Ai: 48 Gen: 86
12980 Sim Starting
12981 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3722.4499999998325
12982 Ai: 49 Gen: 86
12983 Sim Starting
12984 Sim over Total pop = 0 Tick Complete = 2131
    Fitness = 708.0000000000022
12985 Ai: 0 Gen: 87
12986 Sim Starting
12987 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3263.499999996785
12988 Ai: 1 Gen: 87
12989 Sim Starting
12990 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 2939.0500000000516
12991 Ai: 2 Gen: 87
12992 Sim Starting
12993 Sim over Total pop = 0 Tick Complete = 5582
    Fitness = 946.150000000007
12994 Ai: 3 Gen: 87
12995 Sim Starting
12996 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
12997 Ai: 4 Gen: 87
12998 Sim Starting
12999 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 589.5
13000 Ai: 5 Gen: 87
13001 Sim Starting
13002 Sim over Total pop = 0 Tick Complete = 10956
    Fitness = 1444.6499999999687
13003 Ai: 6 Gen: 87
13004 Sim Starting
```

```
13005 Sim over Total pop = 0 Tick Complete = 10219
    Fitness = 1374.2499999999804
13006 Ai: 7 Gen: 87
13007 Sim Starting
13008 Sim over Total pop = 0 Tick Complete = 6688
    Fitness = 693.3500000000029
13009 Ai: 8 Gen: 87
13010 Sim Starting
13011 Sim over Total pop = 0 Tick Complete = 3916
    Fitness = 366.5500000000023
13012 Ai: 9 Gen: 87
13013 Sim Starting
13014 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1035.0
13015 Ai: 10 Gen: 87
13016 Sim Starting
13017 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2843.5500000000005
13018 Ai: 11 Gen: 87
13019 Sim Starting
13020 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1752.3500000000024
13021 Ai: 12 Gen: 87
13022 Sim Starting
13023 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
13024 Ai: 13 Gen: 87
13025 Sim Starting
13026 Sim over Total pop = 0 Tick Complete = 16071
    Fitness = 931.5999999999805
13027 Ai: 14 Gen: 87
13028 Sim Starting
13029 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1917.6500000001197
13030 Ai: 15 Gen: 87
13031 Sim Starting
13032 Sim over Total pop = 0 Tick Complete = 11547
    Fitness = 1309.0000000000029
13033 Ai: 16 Gen: 87
13034 Sim Starting
13035 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2356.65000000000956
13036 Ai: 17 Gen: 87
13037 Sim Starting
```

```
13038 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13039 Ai: 18 Gen: 87
13040 Sim Starting
13041 Sim over Total pop = 0 Tick Complete = 15532
    Fitness = 1081.8500000000324
13042 Ai: 19 Gen: 87
13043 Sim Starting
13044 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 274.1000000000002
13045 Ai: 20 Gen: 87
13046 Sim Starting
13047 Sim over Total pop = 0 Tick Complete = 15598
    Fitness = 2022.7000000000862
13048 Ai: 21 Gen: 87
13049 Sim Starting
13050 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 131.3
13051 Ai: 22 Gen: 87
13052 Sim Starting
13053 Sim over Total pop = 0 Tick Complete = 15697
    Fitness = 1504.2499999999472
13054 Ai: 23 Gen: 87
13055 Sim Starting
13056 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2655.999999999777
13057 Ai: 24 Gen: 87
13058 Sim Starting
13059 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13060 Ai: 25 Gen: 87
13061 Sim Starting
13062 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2658.249999998004
13063 Ai: 26 Gen: 87
13064 Sim Starting
13065 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3280.5999999997275
13066 Ai: 27 Gen: 87
13067 Sim Starting
13068 Sim over Total pop = 0 Tick Complete = 12413
    Fitness = 1767.0000000000468
13069 Ai: 28 Gen: 87
13070 Sim Starting
```

```
13071 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
13072 Ai: 29 Gen: 87
13073 Sim Starting
13074 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 962.200000000265
13075 Ai: 30 Gen: 87
13076 Sim Starting
13077 Sim over Total pop = 0 Tick Complete = 14476
    Fitness = 1880.800000000134
13078 Ai: 31 Gen: 87
13079 Sim Starting
13080 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2053.65000000012
13081 Ai: 32 Gen: 87
13082 Sim Starting
13083 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13084 Ai: 33 Gen: 87
13085 Sim Starting
13086 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13087 Ai: 34 Gen: 87
13088 Sim Starting
13089 Sim over Total pop = 0 Tick Complete = 7007
    Fitness = 1170.8999999999892
13090 Ai: 35 Gen: 87
13091 Sim Starting
13092 Sim over Total pop = 0 Tick Complete = 6325
    Fitness = 272.7499999999994
13093 Ai: 36 Gen: 87
13094 Sim Starting
13095 Sim over Total pop = 0 Tick Complete = 10406
    Fitness = 671.200000000156
13096 Ai: 37 Gen: 87
13097 Sim Starting
13098 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 405.699999999998
13099 Ai: 38 Gen: 87
13100 Sim Starting
13101 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3994.3999999998136
13102 Ai: 39 Gen: 87
13103 Sim Starting
```

```
13104 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2380.399999999816
13105 Ai: 40 Gen: 87
13106 Sim Starting
13107 Sim over Total pop = 0 Tick Complete = 10114
    Fitness = 1677.150000000086
13108 Ai: 41 Gen: 87
13109 Sim Starting
13110 Sim over Total pop = 0 Tick Complete = 6941
    Fitness = 725.349999999999
13111 Ai: 42 Gen: 87
13112 Sim Starting
13113 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1541.0499999999467
13114 Ai: 43 Gen: 87
13115 Sim Starting
13116 Sim over Total pop = 0 Tick Complete = 18939
    Fitness = 1053.95
13117 Ai: 44 Gen: 87
13118 Sim Starting
13119 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13120 Ai: 45 Gen: 87
13121 Sim Starting
13122 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2079.900000000031
13123 Ai: 46 Gen: 87
13124 Sim Starting
13125 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.1000000000209
13126 Ai: 47 Gen: 87
13127 Sim Starting
13128 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2485.3999999998005
13129 Ai: 48 Gen: 87
13130 Sim Starting
13131 Sim over Total pop = 0 Tick Complete = 6030
    Fitness = 203.39999999999915
13132 Ai: 49 Gen: 87
13133 Sim Starting
13134 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13135 Ai: 0 Gen: 88
13136 Sim Starting
```

```
13137 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2680.4000000000206
13138 Ai: 1 Gen: 88
13139 Sim Starting
13140 Sim over Total pop = 0 Tick Complete = 13417
    Fitness = 2701.250000000146
13141 Ai: 2 Gen: 88
13142 Sim Starting
13143 Sim over Total pop = 0 Tick Complete = 7007
    Fitness = 1169.4499999999848
13144 Ai: 3 Gen: 88
13145 Sim Starting
13146 Sim over Total pop = 0 Tick Complete = 12265
    Fitness = 1891.599999999937
13147 Ai: 4 Gen: 88
13148 Sim Starting
13149 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2332.7999999998115
13150 Ai: 5 Gen: 88
13151 Sim Starting
13152 Sim over Total pop = 0 Tick Complete = 11602
    Fitness = 986.7000000000194
13153 Ai: 6 Gen: 88
13154 Sim Starting
13155 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2485.599999999905
13156 Ai: 7 Gen: 88
13157 Sim Starting
13158 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
13159 Ai: 8 Gen: 88
13160 Sim Starting
13161 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13162 Ai: 9 Gen: 88
13163 Sim Starting
13164 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13165 Ai: 10 Gen: 88
13166 Sim Starting
13167 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13168 Ai: 11 Gen: 88
13169 Sim Starting
```

```
13170 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1162.2000000000062
13171 Ai: 12 Gen: 88
13172 Sim Starting
13173 Sim over Total pop = 0 Tick Complete = 8357
    Fitness = 551.2000000000015
13174 Ai: 13 Gen: 88
13175 Sim Starting
13176 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3899.1999999995883
13177 Ai: 14 Gen: 88
13178 Sim Starting
13179 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
13180 Ai: 15 Gen: 88
13181 Sim Starting
13182 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1501.449999999425
13183 Ai: 16 Gen: 88
13184 Sim Starting
13185 Sim over Total pop = 0 Tick Complete = 1823
    Fitness = 609.5
13186 Ai: 17 Gen: 88
13187 Sim Starting
13188 Sim over Total pop = 0 Tick Complete = 19481
    Fitness = 2520.2500000000605
13189 Ai: 18 Gen: 88
13190 Sim Starting
13191 Sim over Total pop = 0 Tick Complete = 15202
    Fitness = 2011.2000000000498
13192 Ai: 19 Gen: 88
13193 Sim Starting
13194 Sim over Total pop = 0 Tick Complete = 2827
    Fitness = 886.249999999973
13195 Ai: 20 Gen: 88
13196 Sim Starting
13197 Sim over Total pop = 0 Tick Complete = 11319
    Fitness = 1296.1000000000477
13198 Ai: 21 Gen: 88
13199 Sim Starting
13200 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2385.999999999821
13201 Ai: 22 Gen: 88
13202 Sim Starting
```

```
13203 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13204 Ai: 23 Gen: 88
13205 Sim Starting
13206 Sim over Total pop = 0 Tick Complete = 4906
    Fitness = 1287.3999999999712
13207 Ai: 24 Gen: 88
13208 Sim Starting
13209 Sim over Total pop = 8 Tick Complete = 20001
    Fitness = 3712.0999999996284
13210 Ai: 25 Gen: 88
13211 Sim Starting
13212 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3193.799999999816
13213 Ai: 26 Gen: 88
13214 Sim Starting
13215 Sim over Total pop = 0 Tick Complete = 13964
    Fitness = 1431.2000000000376
13216 Ai: 27 Gen: 88
13217 Sim Starting
13218 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -183.0
13219 Ai: 28 Gen: 88
13220 Sim Starting
13221 Sim over Total pop = 0 Tick Complete = 7700
    Fitness = 290.0
13222 Ai: 29 Gen: 88
13223 Sim Starting
13224 Sim over Total pop = 0 Tick Complete = 4565
    Fitness = 546.9499999999994
13225 Ai: 30 Gen: 88
13226 Sim Starting
13227 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2272.599999999859
13228 Ai: 31 Gen: 88
13229 Sim Starting
13230 Sim over Total pop = 0 Tick Complete = 12889
    Fitness = 1421.3000000000386
13231 Ai: 32 Gen: 88
13232 Sim Starting
13233 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
13234 Ai: 33 Gen: 88
13235 Sim Starting
```

```
13236 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13237 Ai: 34 Gen: 88
13238 Sim Starting
13239 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13240 Ai: 35 Gen: 88
13241 Sim Starting
13242 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3380.6499999998964
13243 Ai: 36 Gen: 88
13244 Sim Starting
13245 Sim over Total pop = 0 Tick Complete = 3528
    Fitness = 353.45
13246 Ai: 37 Gen: 88
13247 Sim Starting
13248 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 133.9499999999996
13249 Ai: 38 Gen: 88
13250 Sim Starting
13251 Sim over Total pop = 0 Tick Complete = 11594
    Fitness = 2449.700000000097
13252 Ai: 39 Gen: 88
13253 Sim Starting
13254 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13255 Ai: 40 Gen: 88
13256 Sim Starting
13257 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -202.2
13258 Ai: 41 Gen: 88
13259 Sim Starting
13260 Sim over Total pop = 0 Tick Complete = 13145
    Fitness = 1774.7500000000916
13261 Ai: 42 Gen: 88
13262 Sim Starting
13263 Sim over Total pop = 0 Tick Complete = 858
    Fitness = -166.2000000000001
13264 Ai: 43 Gen: 88
13265 Sim Starting
13266 Sim over Total pop = 0 Tick Complete = 12606
    Fitness = 1845.4500000000828
13267 Ai: 44 Gen: 88
13268 Sim Starting
```

```
13269 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1124.6500000000012
13270 Ai: 45 Gen: 88
13271 Sim Starting
13272 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13273 Ai: 46 Gen: 88
13274 Sim Starting
13275 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -134.5
13276 Ai: 47 Gen: 88
13277 Sim Starting
13278 Sim over Total pop = 0 Tick Complete = 17127
    Fitness = 1903.5999999998717
13279 Ai: 48 Gen: 88
13280 Sim Starting
13281 Sim over Total pop = 0 Tick Complete = 15411
    Fitness = 1413.3500000000295
13282 Ai: 49 Gen: 88
13283 Sim Starting
13284 Sim over Total pop = 0 Tick Complete = 7293
    Fitness = 275.5
13285 Ai: 0 Gen: 89
13286 Sim Starting
13287 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2021.6999999998732
13288 Ai: 1 Gen: 89
13289 Sim Starting
13290 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2717.9999999998527
13291 Ai: 2 Gen: 89
13292 Sim Starting
13293 Sim over Total pop = 0 Tick Complete = 13480
    Fitness = 640.499999999877
13294 Ai: 3 Gen: 89
13295 Sim Starting
13296 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13297 Ai: 4 Gen: 89
13298 Sim Starting
13299 Sim over Total pop = 0 Tick Complete = 13717
    Fitness = 1491.75
13300 Ai: 5 Gen: 89
13301 Sim Starting
```

```
13302 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
13303 Ai: 6 Gen: 89
13304 Sim Starting
13305 Sim over Total pop = 0 Tick Complete = 8800
    Fitness = 611.6000000000015
13306 Ai: 7 Gen: 89
13307 Sim Starting
13308 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2988.9499999999384
13309 Ai: 8 Gen: 89
13310 Sim Starting
13311 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
13312 Ai: 9 Gen: 89
13313 Sim Starting
13314 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1152.15
13315 Ai: 10 Gen: 89
13316 Sim Starting
13317 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1720.499999999918
13318 Ai: 11 Gen: 89
13319 Sim Starting
13320 Sim over Total pop = 0 Tick Complete = 2150
    Fitness = 381.3
13321 Ai: 12 Gen: 89
13322 Sim Starting
13323 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13324 Ai: 13 Gen: 89
13325 Sim Starting
13326 Sim over Total pop = 0 Tick Complete = 6732
    Fitness = 566.449999999983
13327 Ai: 14 Gen: 89
13328 Sim Starting
13329 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 486.1999999999986
13330 Ai: 15 Gen: 89
13331 Sim Starting
13332 Sim over Total pop = 0 Tick Complete = 2838
    Fitness = 338.5999999999995
13333 Ai: 16 Gen: 89
13334 Sim Starting
```

```
13335 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1271.3499999999833
13336 Ai: 17 Gen: 89
13337 Sim Starting
13338 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2034.6500000000842
13339 Ai: 18 Gen: 89
13340 Sim Starting
13341 Sim over Total pop = 0 Tick Complete = 3327
    Fitness = 655.7499999999951
13342 Ai: 19 Gen: 89
13343 Sim Starting
13344 Sim over Total pop = 0 Tick Complete = 12595
    Fitness = 963.7999999999814
13345 Ai: 20 Gen: 89
13346 Sim Starting
13347 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.8500000000209
13348 Ai: 21 Gen: 89
13349 Sim Starting
13350 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13351 Ai: 22 Gen: 89
13352 Sim Starting
13353 Sim over Total pop = 0 Tick Complete = 15411
    Fitness = 1227.449999999993
13354 Ai: 23 Gen: 89
13355 Sim Starting
13356 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -191.7000000000005
13357 Ai: 24 Gen: 89
13358 Sim Starting
13359 Sim over Total pop = 0 Tick Complete = 4455
    Fitness = 612.9500000000087
13360 Ai: 25 Gen: 89
13361 Sim Starting
13362 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 132.0
13363 Ai: 26 Gen: 89
13364 Sim Starting
13365 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3201.7499999999213
13366 Ai: 27 Gen: 89
13367 Sim Starting
```

```
13368 Sim over Total pop = 0 Tick Complete = 15001
    Fitness = 2364.6500000000874
13369 Ai: 28 Gen: 89
13370 Sim Starting
13371 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 183.84999999999997
13372 Ai: 29 Gen: 89
13373 Sim Starting
13374 Sim over Total pop = 0 Tick Complete = 2673
    Fitness = 64.39999999999962
13375 Ai: 30 Gen: 89
13376 Sim Starting
13377 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2953.000000000051
13378 Ai: 31 Gen: 89
13379 Sim Starting
13380 Sim over Total pop = 0 Tick Complete = 9171
    Fitness = 1132.4499999999996
13381 Ai: 32 Gen: 89
13382 Sim Starting
13383 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1237.099999999954
13384 Ai: 33 Gen: 89
13385 Sim Starting
13386 Sim over Total pop = 0 Tick Complete = 7972
    Fitness = 779.0
13387 Ai: 34 Gen: 89
13388 Sim Starting
13389 Sim over Total pop = 0 Tick Complete = 10527
    Fitness = 613.399999999922
13390 Ai: 35 Gen: 89
13391 Sim Starting
13392 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2206.19999999835
13393 Ai: 36 Gen: 89
13394 Sim Starting
13395 Sim over Total pop = 0 Tick Complete = 2362
    Fitness = -0.400000000004178
13396 Ai: 37 Gen: 89
13397 Sim Starting
13398 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2877.699999997365
13399 Ai: 38 Gen: 89
13400 Sim Starting
```

```
13401 Sim over Total pop = 0 Tick Complete = 1922
    Fitness = -25.2500000000000142
13402 Ai: 39 Gen: 89
13403 Sim Starting
13404 Sim over Total pop = 0 Tick Complete = 8965
    Fitness = 511.5
13405 Ai: 40 Gen: 89
13406 Sim Starting
13407 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.2999999999997
13408 Ai: 41 Gen: 89
13409 Sim Starting
13410 Sim over Total pop = 0 Tick Complete = 7675
    Fitness = 1391.700000000002
13411 Ai: 42 Gen: 89
13412 Sim Starting
13413 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -200.85000000000002
13414 Ai: 43 Gen: 89
13415 Sim Starting
13416 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.499999999995
13417 Ai: 44 Gen: 89
13418 Sim Starting
13419 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 970.3499999999775
13420 Ai: 45 Gen: 89
13421 Sim Starting
13422 Sim over Total pop = 0 Tick Complete = 588
    Fitness = 141.0
13423 Ai: 46 Gen: 89
13424 Sim Starting
13425 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1920.6000000001152
13426 Ai: 47 Gen: 89
13427 Sim Starting
13428 Sim over Total pop = 0 Tick Complete = 6036
    Fitness = 663.75
13429 Ai: 48 Gen: 89
13430 Sim Starting
13431 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3142.0999999999044
13432 Ai: 49 Gen: 89
13433 Sim Starting
```

```
13434 Sim over Total pop = 0 Tick Complete = 844
    Fitness = 215.59999999999997
13435 Ai: 0 Gen: 90
13436 Sim Starting
13437 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2383.6999999999407
13438 Ai: 1 Gen: 90
13439 Sim Starting
13440 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2177.699999999853
13441 Ai: 2 Gen: 90
13442 Sim Starting
13443 Sim over Total pop = 0 Tick Complete = 3734
    Fitness = 491.5999999999775
13444 Ai: 3 Gen: 90
13445 Sim Starting
13446 Sim over Total pop = 0 Tick Complete = 15565
    Fitness = 1354.3499999999935
13447 Ai: 4 Gen: 90
13448 Sim Starting
13449 Sim over Total pop = 0 Tick Complete = 11011
    Fitness = 1536.5500000000209
13450 Ai: 5 Gen: 90
13451 Sim Starting
13452 Sim over Total pop = 0 Tick Complete = 10670
    Fitness = 1435.5500000000266
13453 Ai: 6 Gen: 90
13454 Sim Starting
13455 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 289.5
13456 Ai: 7 Gen: 90
13457 Sim Starting
13458 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13459 Ai: 8 Gen: 90
13460 Sim Starting
13461 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2265.999999999839
13462 Ai: 9 Gen: 90
13463 Sim Starting
13464 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1059.7500000000293
13465 Ai: 10 Gen: 90
13466 Sim Starting
```

```
13467 Sim over Total pop = 0 Tick Complete = 5153
    Fitness = 338.5
13468 Ai: 11 Gen: 90
13469 Sim Starting
13470 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
13471 Ai: 12 Gen: 90
13472 Sim Starting
13473 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2589.900000000118
13474 Ai: 13 Gen: 90
13475 Sim Starting
13476 Sim over Total pop = 0 Tick Complete = 7287
    Fitness = 900.4500000000107
13477 Ai: 14 Gen: 90
13478 Sim Starting
13479 Sim over Total pop = 0 Tick Complete = 15158
    Fitness = 1736.8500000000586
13480 Ai: 15 Gen: 90
13481 Sim Starting
13482 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1982.7499999999093
13483 Ai: 16 Gen: 90
13484 Sim Starting
13485 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 954.900000000243
13486 Ai: 17 Gen: 90
13487 Sim Starting
13488 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2955.999999999731
13489 Ai: 18 Gen: 90
13490 Sim Starting
13491 Sim over Total pop = 0 Tick Complete = 5150
    Fitness = 828.149999999879
13492 Ai: 19 Gen: 90
13493 Sim Starting
13494 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1634.899999999931
13495 Ai: 20 Gen: 90
13496 Sim Starting
13497 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3927.7999999995745
13498 Ai: 21 Gen: 90
13499 Sim Starting
```

```
13500 Sim over Total pop = 0 Tick Complete = 6748
    Fitness = 1218.0499999999947
13501 Ai: 22 Gen: 90
13502 Sim Starting
13503 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2865.999999997444
13504 Ai: 23 Gen: 90
13505 Sim Starting
13506 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
13507 Ai: 24 Gen: 90
13508 Sim Starting
13509 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3619.799999998133
13510 Ai: 25 Gen: 90
13511 Sim Starting
13512 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3120.49999999821
13513 Ai: 26 Gen: 90
13514 Sim Starting
13515 Sim over Total pop = 0 Tick Complete = 17792
    Fitness = 1793.549999999987
13516 Ai: 27 Gen: 90
13517 Sim Starting
13518 Sim over Total pop = 0 Tick Complete = 8756
    Fitness = 1052.899999999979
13519 Ai: 28 Gen: 90
13520 Sim Starting
13521 Sim over Total pop = 0 Tick Complete = 3861
    Fitness = 458.1000000000061
13522 Ai: 29 Gen: 90
13523 Sim Starting
13524 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13525 Ai: 30 Gen: 90
13526 Sim Starting
13527 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13528 Ai: 31 Gen: 90
13529 Sim Starting
13530 Sim over Total pop = 0 Tick Complete = 6512
    Fitness = 676.25
13531 Ai: 32 Gen: 90
13532 Sim Starting
```

```
13533 Sim over Total pop = 0 Tick Complete = 18095
    Fitness = 3094.4999999997976
13534 Ai: 33 Gen: 90
13535 Sim Starting
13536 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13537 Ai: 34 Gen: 90
13538 Sim Starting
13539 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2162.4000000001374
13540 Ai: 35 Gen: 90
13541 Sim Starting
13542 Sim over Total pop = 0 Tick Complete = 5739
    Fitness = 861.9999999999922
13543 Ai: 36 Gen: 90
13544 Sim Starting
13545 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.2999999999997
13546 Ai: 37 Gen: 90
13547 Sim Starting
13548 Sim over Total pop = 0 Tick Complete = 6542
    Fitness = 741.5000000000134
13549 Ai: 38 Gen: 90
13550 Sim Starting
13551 Sim over Total pop = 0 Tick Complete = 6028
    Fitness = 810.3000000000055
13552 Ai: 39 Gen: 90
13553 Sim Starting
13554 Sim over Total pop = 0 Tick Complete = 3487
    Fitness = 721.1499999999965
13555 Ai: 40 Gen: 90
13556 Sim Starting
13557 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13558 Ai: 41 Gen: 90
13559 Sim Starting
13560 Sim over Total pop = 0 Tick Complete = 6578
    Fitness = 829.7000000000021
13561 Ai: 42 Gen: 90
13562 Sim Starting
13563 Sim over Total pop = 0 Tick Complete = 3905
    Fitness = 962.5500000000046
13564 Ai: 43 Gen: 90
13565 Sim Starting
```

```
13566 Sim over Total pop = 0 Tick Complete = 8360
    Fitness = 1065.35000000000038
13567 Ai: 44 Gen: 90
13568 Sim Starting
13569 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2674.0999999997643
13570 Ai: 45 Gen: 90
13571 Sim Starting
13572 Sim over Total pop = 0 Tick Complete = 9600
    Fitness = 1697.9999999999886
13573 Ai: 46 Gen: 90
13574 Sim Starting
13575 Sim over Total pop = 0 Tick Complete = 19855
    Fitness = 2522.1500000000066
13576 Ai: 47 Gen: 90
13577 Sim Starting
13578 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2825.9000000002357
13579 Ai: 48 Gen: 90
13580 Sim Starting
13581 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2340.450000000027
13582 Ai: 49 Gen: 90
13583 Sim Starting
13584 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3655.999999999619
13585 Ai: 0 Gen: 91
13586 Sim Starting
13587 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2494.7500000000023
13588 Ai: 1 Gen: 91
13589 Sim Starting
13590 Sim over Total pop = 0 Tick Complete = 15366
    Fitness = 1939.0000000000396
13591 Ai: 2 Gen: 91
13592 Sim Starting
13593 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
13594 Ai: 3 Gen: 91
13595 Sim Starting
13596 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13597 Ai: 4 Gen: 91
13598 Sim Starting
```

```
13599 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13600 Ai: 5 Gen: 91
13601 Sim Starting
13602 Sim over Total pop = 0 Tick Complete = 539
    Fitness = -188.0
13603 Ai: 6 Gen: 91
13604 Sim Starting
13605 Sim over Total pop = 0 Tick Complete = 13354
    Fitness = 1783.2499999999811
13606 Ai: 7 Gen: 91
13607 Sim Starting
13608 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 876.6999999999819
13609 Ai: 8 Gen: 91
13610 Sim Starting
13611 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2311.8999999999856
13612 Ai: 9 Gen: 91
13613 Sim Starting
13614 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2579.89999999998687
13615 Ai: 10 Gen: 91
13616 Sim Starting
13617 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2560.4999999997885
13618 Ai: 11 Gen: 91
13619 Sim Starting
13620 Sim over Total pop = 0 Tick Complete = 574
    Fitness = 140.5
13621 Ai: 12 Gen: 91
13622 Sim Starting
13623 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -131.85
13624 Ai: 13 Gen: 91
13625 Sim Starting
13626 Sim over Total pop = 0 Tick Complete = 12056
    Fitness = 1110.5999999999988
13627 Ai: 14 Gen: 91
13628 Sim Starting
13629 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13630 Ai: 15 Gen: 91
13631 Sim Starting
```

```
13632 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2139.900000000136
13633 Ai: 16 Gen: 91
13634 Sim Starting
13635 Sim over Total pop = 0 Tick Complete = 9545
    Fitness = 891.6499999999835
13636 Ai: 17 Gen: 91
13637 Sim Starting
13638 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2262.7499999998386
13639 Ai: 18 Gen: 91
13640 Sim Starting
13641 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13642 Ai: 19 Gen: 91
13643 Sim Starting
13644 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1194.5999999999901
13645 Ai: 20 Gen: 91
13646 Sim Starting
13647 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2751.4999999997635
13648 Ai: 21 Gen: 91
13649 Sim Starting
13650 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 729.5000000000002
13651 Ai: 22 Gen: 91
13652 Sim Starting
13653 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2183.6500000000874
13654 Ai: 23 Gen: 91
13655 Sim Starting
13656 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
13657 Ai: 24 Gen: 91
13658 Sim Starting
13659 Sim over Total pop = 0 Tick Complete = 568
    Fitness = 130.0
13660 Ai: 25 Gen: 91
13661 Sim Starting
13662 Sim over Total pop = 0 Tick Complete = 9889
    Fitness = 1020.0500000000156
13663 Ai: 26 Gen: 91
13664 Sim Starting
```

```
13665 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2760.2499999998463
13666 Ai: 27 Gen: 91
13667 Sim Starting
13668 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3201.4999999996976
13669 Ai: 28 Gen: 91
13670 Sim Starting
13671 Sim over Total pop = 0 Tick Complete = 12600
    Fitness = 1172.949999999982
13672 Ai: 29 Gen: 91
13673 Sim Starting
13674 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2533.7500000001564
13675 Ai: 30 Gen: 91
13676 Sim Starting
13677 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3437.1000000001914
13678 Ai: 31 Gen: 91
13679 Sim Starting
13680 Sim over Total pop = 0 Tick Complete = 10235
    Fitness = 422.0999999999949
13681 Ai: 32 Gen: 91
13682 Sim Starting
13683 Sim over Total pop = 0 Tick Complete = 1892
    Fitness = 569.200000000015
13684 Ai: 33 Gen: 91
13685 Sim Starting
13686 Sim over Total pop = 0 Tick Complete = 12870
    Fitness = 1895.9500000001085
13687 Ai: 34 Gen: 91
13688 Sim Starting
13689 Sim over Total pop = 0 Tick Complete = 4774
    Fitness = 708.000000000024
13690 Ai: 35 Gen: 91
13691 Sim Starting
13692 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13693 Ai: 36 Gen: 91
13694 Sim Starting
13695 Sim over Total pop = 0 Tick Complete = 17820
    Fitness = 975.0
13696 Ai: 37 Gen: 91
13697 Sim Starting
```

```
13698 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2702.849999999891
13699 Ai: 38 Gen: 91
13700 Sim Starting
13701 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2663.649999999737
13702 Ai: 39 Gen: 91
13703 Sim Starting
13704 Sim over Total pop = 0 Tick Complete = 11137
    Fitness = 966.200000000145
13705 Ai: 40 Gen: 91
13706 Sim Starting
13707 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13708 Ai: 41 Gen: 91
13709 Sim Starting
13710 Sim over Total pop = 0 Tick Complete = 14795
    Fitness = 1731.549999999941
13711 Ai: 42 Gen: 91
13712 Sim Starting
13713 Sim over Total pop = 0 Tick Complete = 3322
    Fitness = 801.700000000031
13714 Ai: 43 Gen: 91
13715 Sim Starting
13716 Sim over Total pop = 0 Tick Complete = 2662
    Fitness = 486.349999999973
13717 Ai: 44 Gen: 91
13718 Sim Starting
13719 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -184.7500000000003
13720 Ai: 45 Gen: 91
13721 Sim Starting
13722 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13723 Ai: 46 Gen: 91
13724 Sim Starting
13725 Sim over Total pop = 0 Tick Complete = 4488
    Fitness = 372.2500000000018
13726 Ai: 47 Gen: 91
13727 Sim Starting
13728 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 277.3999999999975
13729 Ai: 48 Gen: 91
13730 Sim Starting
```

```
13731 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2199.2499999998377
13732 Ai: 49 Gen: 91
13733 Sim Starting
13734 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1987.899999999979
13735 Ai: 0 Gen: 92
13736 Sim Starting
13737 Sim over Total pop = 0 Tick Complete = 566
    Fitness = 130.0
13738 Ai: 1 Gen: 92
13739 Sim Starting
13740 Sim over Total pop = 0 Tick Complete = 8481
    Fitness = 1594.2500000000216
13741 Ai: 2 Gen: 92
13742 Sim Starting
13743 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 842.4
13744 Ai: 3 Gen: 92
13745 Sim Starting
13746 Sim over Total pop = 0 Tick Complete = 3938
    Fitness = 124.5000000000017
13747 Ai: 4 Gen: 92
13748 Sim Starting
13749 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -196.85
13750 Ai: 5 Gen: 92
13751 Sim Starting
13752 Sim over Total pop = 0 Tick Complete = 8074
    Fitness = 471.0
13753 Ai: 6 Gen: 92
13754 Sim Starting
13755 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13756 Ai: 7 Gen: 92
13757 Sim Starting
13758 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 1895.3500000000197
13759 Ai: 8 Gen: 92
13760 Sim Starting
13761 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
13762 Ai: 9 Gen: 92
13763 Sim Starting
```

```
13764 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3951.9999999995803
13765 Ai: 10 Gen: 92
13766 Sim Starting
13767 Sim over Total pop = 0 Tick Complete = 4694
    Fitness = 638.4499999999998
13768 Ai: 11 Gen: 92
13769 Sim Starting
13770 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 166.5
13771 Ai: 12 Gen: 92
13772 Sim Starting
13773 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 4032.399999999568
13774 Ai: 13 Gen: 92
13775 Sim Starting
13776 Sim over Total pop = 0 Tick Complete = 954
    Fitness = 173.5499999999998
13777 Ai: 14 Gen: 92
13778 Sim Starting
13779 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1627.249999999277
13780 Ai: 15 Gen: 92
13781 Sim Starting
13782 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2796.299999999764
13783 Ai: 16 Gen: 92
13784 Sim Starting
13785 Sim over Total pop = 0 Tick Complete = 10004
    Fitness = 899.399999999838
13786 Ai: 17 Gen: 92
13787 Sim Starting
13788 Sim over Total pop = 0 Tick Complete = 7315
    Fitness = 1300.2500000000093
13789 Ai: 18 Gen: 92
13790 Sim Starting
13791 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2124.250000000129
13792 Ai: 19 Gen: 92
13793 Sim Starting
13794 Sim over Total pop = 0 Tick Complete = 6432
    Fitness = 889.499999999902
13795 Ai: 20 Gen: 92
13796 Sim Starting
```

```
13797 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3103.1499999998123
13798 Ai: 21 Gen: 92
13799 Sim Starting
13800 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
13801 Ai: 22 Gen: 92
13802 Sim Starting
13803 Sim over Total pop = 0 Tick Complete = 15895
    Fitness = 2250.949999999961
13804 Ai: 23 Gen: 92
13805 Sim Starting
13806 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1647.7000000000085
13807 Ai: 24 Gen: 92
13808 Sim Starting
13809 Sim over Total pop = 0 Tick Complete = 18730
    Fitness = 2477.3500000000026
13810 Ai: 25 Gen: 92
13811 Sim Starting
13812 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3231.499999999693
13813 Ai: 26 Gen: 92
13814 Sim Starting
13815 Sim over Total pop = 0 Tick Complete = 5035
    Fitness = 652.4499999999932
13816 Ai: 27 Gen: 92
13817 Sim Starting
13818 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3488.2999999996505
13819 Ai: 28 Gen: 92
13820 Sim Starting
13821 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13822 Ai: 29 Gen: 92
13823 Sim Starting
13824 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -200.45
13825 Ai: 30 Gen: 92
13826 Sim Starting
13827 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
13828 Ai: 31 Gen: 92
13829 Sim Starting
```

```
13830 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2175.9999999998527
13831 Ai: 32 Gen: 92
13832 Sim Starting
13833 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2358.6500000000055
13834 Ai: 33 Gen: 92
13835 Sim Starting
13836 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
13837 Ai: 34 Gen: 92
13838 Sim Starting
13839 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1058.8000000000293
13840 Ai: 35 Gen: 92
13841 Sim Starting
13842 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.550000000021
13843 Ai: 36 Gen: 92
13844 Sim Starting
13845 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
13846 Ai: 37 Gen: 92
13847 Sim Starting
13848 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -162.5
13849 Ai: 38 Gen: 92
13850 Sim Starting
13851 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1977.400000000111
13852 Ai: 39 Gen: 92
13853 Sim Starting
13854 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2230.4999999998386
13855 Ai: 40 Gen: 92
13856 Sim Starting
13857 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 974.5999999999774
13858 Ai: 41 Gen: 92
13859 Sim Starting
13860 Sim over Total pop = 0 Tick Complete = 17283
    Fitness = 1915.699999999995
13861 Ai: 42 Gen: 92
13862 Sim Starting
```

```
13863 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2584.5999999999126
13864 Ai: 43 Gen: 92
13865 Sim Starting
13866 Sim over Total pop = 0 Tick Complete = 7290
    Fitness = 926.7000000000186
13867 Ai: 44 Gen: 92
13868 Sim Starting
13869 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2315.9000000000124
13870 Ai: 45 Gen: 92
13871 Sim Starting
13872 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1211.1999999999998
13873 Ai: 46 Gen: 92
13874 Sim Starting
13875 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1400.9499999999646
13876 Ai: 47 Gen: 92
13877 Sim Starting
13878 Sim over Total pop = 0 Tick Complete = 9297
    Fitness = 1945.7999999999247
13879 Ai: 48 Gen: 92
13880 Sim Starting
13881 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3693.400000000088
13882 Ai: 49 Gen: 92
13883 Sim Starting
13884 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
13885 Ai: 0 Gen: 93
13886 Sim Starting
13887 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2441.099999998817
13888 Ai: 1 Gen: 93
13889 Sim Starting
13890 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3092.699999999707
13891 Ai: 2 Gen: 93
13892 Sim Starting
13893 Sim over Total pop = 0 Tick Complete = 14030
    Fitness = 1702.7000000000542
13894 Ai: 3 Gen: 93
13895 Sim Starting
```

```
13896 Sim over Total pop = 0 Tick Complete = 10967
    Fitness = 1600.650000000043
13897 Ai: 4 Gen: 93
13898 Sim Starting
13899 Sim over Total pop = 0 Tick Complete = 3168
    Fitness = 381.500000000004
13900 Ai: 5 Gen: 93
13901 Sim Starting
13902 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2181.199999999996
13903 Ai: 6 Gen: 93
13904 Sim Starting
13905 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.5000000000209
13906 Ai: 7 Gen: 93
13907 Sim Starting
13908 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1845.8000000001107
13909 Ai: 8 Gen: 93
13910 Sim Starting
13911 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3269.599999999681
13912 Ai: 9 Gen: 93
13913 Sim Starting
13914 Sim over Total pop = 0 Tick Complete = 5994
    Fitness = 645.0000000001
13915 Ai: 10 Gen: 93
13916 Sim Starting
13917 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2056.35
13918 Ai: 11 Gen: 93
13919 Sim Starting
13920 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2318.20000000015
13921 Ai: 12 Gen: 93
13922 Sim Starting
13923 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 882.050000000021
13924 Ai: 13 Gen: 93
13925 Sim Starting
13926 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 3744.3500000003637
13927 Ai: 14 Gen: 93
13928 Sim Starting
```

```
13929 Sim over Total pop = 0 Tick Complete = 747
    Fitness = -180.1
13930 Ai: 15 Gen: 93
13931 Sim Starting
13932 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
13933 Ai: 16 Gen: 93
13934 Sim Starting
13935 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1966.449999999836
13936 Ai: 17 Gen: 93
13937 Sim Starting
13938 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 278.5
13939 Ai: 18 Gen: 93
13940 Sim Starting
13941 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 131.3999999999998
13942 Ai: 19 Gen: 93
13943 Sim Starting
13944 Sim over Total pop = 0 Tick Complete = 12342
    Fitness = 1649.19999999997
13945 Ai: 20 Gen: 93
13946 Sim Starting
13947 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1546.8000000000707
13948 Ai: 21 Gen: 93
13949 Sim Starting
13950 Sim over Total pop = 0 Tick Complete = 8830
    Fitness = 1485.999999999959
13951 Ai: 22 Gen: 93
13952 Sim Starting
13953 Sim over Total pop = 0 Tick Complete = 12045
    Fitness = 969.399999999758
13954 Ai: 23 Gen: 93
13955 Sim Starting
13956 Sim over Total pop = 0 Tick Complete = 9900
    Fitness = 1070.2500000000332
13957 Ai: 24 Gen: 93
13958 Sim Starting
13959 Sim over Total pop = 0 Tick Complete = 18337
    Fitness = 2728.900000000024
13960 Ai: 25 Gen: 93
13961 Sim Starting
```

```
13962 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2660.699999999773
13963 Ai: 26 Gen: 93
13964 Sim Starting
13965 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2505.9999999998
13966 Ai: 27 Gen: 93
13967 Sim Starting
13968 Sim over Total pop = 0 Tick Complete = 522
    Fitness = -203.4
13969 Ai: 28 Gen: 93
13970 Sim Starting
13971 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1353.749999999695
13972 Ai: 29 Gen: 93
13973 Sim Starting
13974 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
13975 Ai: 30 Gen: 93
13976 Sim Starting
13977 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1409.14999999962
13978 Ai: 31 Gen: 93
13979 Sim Starting
13980 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -203.2
13981 Ai: 32 Gen: 93
13982 Sim Starting
13983 Sim over Total pop = 0 Tick Complete = 10747
    Fitness = 945.55
13984 Ai: 33 Gen: 93
13985 Sim Starting
13986 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 817.04999999977
13987 Ai: 34 Gen: 93
13988 Sim Starting
13989 Sim over Total pop = 0 Tick Complete = 6006
    Fitness = 641.549999999999
13990 Ai: 35 Gen: 93
13991 Sim Starting
13992 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1600.6999999999193
13993 Ai: 36 Gen: 93
13994 Sim Starting
```

```
13995 Sim over Total pop = 0 Tick Complete = 4793
    Fitness = 156.3
13996 Ai: 37 Gen: 93
13997 Sim Starting
13998 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -194.15
13999 Ai: 38 Gen: 93
14000 Sim Starting
14001 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1967.149999999837
14002 Ai: 39 Gen: 93
14003 Sim Starting
14004 Sim over Total pop = 0 Tick Complete = 5046
    Fitness = 452.0
14005 Ai: 40 Gen: 93
14006 Sim Starting
14007 Sim over Total pop = 0 Tick Complete = 19690
    Fitness = 1706.9500000000737
14008 Ai: 41 Gen: 93
14009 Sim Starting
14010 Sim over Total pop = 0 Tick Complete = 9713
    Fitness = 591.4500000000006
14011 Ai: 42 Gen: 93
14012 Sim Starting
14013 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 131.5
14014 Ai: 43 Gen: 93
14015 Sim Starting
14016 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2433.749999999957
14017 Ai: 44 Gen: 93
14018 Sim Starting
14019 Sim over Total pop = 0 Tick Complete = 19555
    Fitness = 1716.6999999999653
14020 Ai: 45 Gen: 93
14021 Sim Starting
14022 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14023 Ai: 46 Gen: 93
14024 Sim Starting
14025 Sim over Total pop = 0 Tick Complete = 19074
    Fitness = 2425.2000000001294
14026 Ai: 47 Gen: 93
14027 Sim Starting
```

```
14028 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -203.4
14029 Ai: 48 Gen: 93
14030 Sim Starting
14031 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 1196.5000000000425
14032 Ai: 49 Gen: 93
14033 Sim Starting
14034 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 521.0
14035 Ai: 0 Gen: 94
14036 Sim Starting
14037 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3312.299999999675
14038 Ai: 1 Gen: 94
14039 Sim Starting
14040 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3090.499999999769
14041 Ai: 2 Gen: 94
14042 Sim Starting
14043 Sim over Total pop = 0 Tick Complete = 4295
    Fitness = 1184.349999999979
14044 Ai: 3 Gen: 94
14045 Sim Starting
14046 Sim over Total pop = 0 Tick Complete = 12331
    Fitness = 1832.8000000000525
14047 Ai: 4 Gen: 94
14048 Sim Starting
14049 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
14050 Ai: 5 Gen: 94
14051 Sim Starting
14052 Sim over Total pop = 0 Tick Complete = 8657
    Fitness = 1363.4499999999712
14053 Ai: 6 Gen: 94
14054 Sim Starting
14055 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 747.0500000000031
14056 Ai: 7 Gen: 94
14057 Sim Starting
14058 Sim over Total pop = 0 Tick Complete = 8679
    Fitness = 994.6000000000258
14059 Ai: 8 Gen: 94
14060 Sim Starting
```

```
14061 Sim over Total pop = 0 Tick Complete = 10835
    Fitness = 1037.5999999999967
14062 Ai: 9 Gen: 94
14063 Sim Starting
14064 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1626.0000000000653
14065 Ai: 10 Gen: 94
14066 Sim Starting
14067 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1726.2999999999251
14068 Ai: 11 Gen: 94
14069 Sim Starting
14070 Sim over Total pop = 0 Tick Complete = 8002
    Fitness = 1400.6000000000015
14071 Ai: 12 Gen: 94
14072 Sim Starting
14073 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 3131.0999999999813
14074 Ai: 13 Gen: 94
14075 Sim Starting
14076 Sim over Total pop = 0 Tick Complete = 16717
    Fitness = 1279.2000000000232
14077 Ai: 14 Gen: 94
14078 Sim Starting
14079 Sim over Total pop = 0 Tick Complete = 15719
    Fitness = 818.5
14080 Ai: 15 Gen: 94
14081 Sim Starting
14082 Sim over Total pop = 0 Tick Complete = 4268
    Fitness = 298.0
14083 Ai: 16 Gen: 94
14084 Sim Starting
14085 Sim over Total pop = 0 Tick Complete = 4213
    Fitness = 739.050000000012
14086 Ai: 17 Gen: 94
14087 Sim Starting
14088 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -98.45
14089 Ai: 18 Gen: 94
14090 Sim Starting
14091 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3676.1999999996124
14092 Ai: 19 Gen: 94
14093 Sim Starting
```

```
14094 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2590.4999999997844
14095 Ai: 20 Gen: 94
14096 Sim Starting
14097 Sim over Total pop = 0 Tick Complete = 6440
    Fitness = 1205.099999999994
14098 Ai: 21 Gen: 94
14099 Sim Starting
14100 Sim over Total pop = 0 Tick Complete = 6699
    Fitness = 843.6999999999907
14101 Ai: 22 Gen: 94
14102 Sim Starting
14103 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1315.9999999999832
14104 Ai: 23 Gen: 94
14105 Sim Starting
14106 Sim over Total pop = 0 Tick Complete = 12207
    Fitness = 1738.7500000000887
14107 Ai: 24 Gen: 94
14108 Sim Starting
14109 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3050.0999999997166
14110 Ai: 25 Gen: 94
14111 Sim Starting
14112 Sim over Total pop = 0 Tick Complete = 1394
    Fitness = 229.54999999999995
14113 Ai: 26 Gen: 94
14114 Sim Starting
14115 Sim over Total pop = 0 Tick Complete = 12067
    Fitness = 1839.9499999999252
14116 Ai: 27 Gen: 94
14117 Sim Starting
14118 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3076.9999999997035
14119 Ai: 28 Gen: 94
14120 Sim Starting
14121 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3047.949999999725
14122 Ai: 29 Gen: 94
14123 Sim Starting
14124 Sim over Total pop = 0 Tick Complete = 5747
    Fitness = 945.3499999999833
14125 Ai: 30 Gen: 94
14126 Sim Starting
```

```
14127 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3351.449999999896
14128 Ai: 31 Gen: 94
14129 Sim Starting
14130 Sim over Total pop = 9 Tick Complete = 20001
    Fitness = 2822.150000000167
14131 Ai: 32 Gen: 94
14132 Sim Starting
14133 Sim over Total pop = 0 Tick Complete = 1699
    Fitness = 199.7999999999944
14134 Ai: 33 Gen: 94
14135 Sim Starting
14136 Sim over Total pop = 0 Tick Complete = 11891
    Fitness = 489.94999999999345
14137 Ai: 34 Gen: 94
14138 Sim Starting
14139 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 689.0
14140 Ai: 35 Gen: 94
14141 Sim Starting
14142 Sim over Total pop = 0 Tick Complete = 6325
    Fitness = 759.199999999887
14143 Ai: 36 Gen: 94
14144 Sim Starting
14145 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14146 Ai: 37 Gen: 94
14147 Sim Starting
14148 Sim over Total pop = 0 Tick Complete = 9317
    Fitness = 1180.400000000337
14149 Ai: 38 Gen: 94
14150 Sim Starting
14151 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3195.00000000005
14152 Ai: 39 Gen: 94
14153 Sim Starting
14154 Sim over Total pop = 0 Tick Complete = 4056
    Fitness = 750.0500000000001
14155 Ai: 40 Gen: 94
14156 Sim Starting
14157 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.5
14158 Ai: 41 Gen: 94
14159 Sim Starting
```

```
14160 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2470.499999999802
14161 Ai: 42 Gen: 94
14162 Sim Starting
14163 Sim over Total pop = 0 Tick Complete = 569
    Fitness = 130.0
14164 Ai: 43 Gen: 94
14165 Sim Starting
14166 Sim over Total pop = 0 Tick Complete = 2486
    Fitness = 870.700000000024
14167 Ai: 44 Gen: 94
14168 Sim Starting
14169 Sim over Total pop = 0 Tick Complete = 2398
    Fitness = 265.5000000000009
14170 Ai: 45 Gen: 94
14171 Sim Starting
14172 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3405.99999999966
14173 Ai: 46 Gen: 94
14174 Sim Starting
14175 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2240.49999999959
14176 Ai: 47 Gen: 94
14177 Sim Starting
14178 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.7500000000209
14179 Ai: 48 Gen: 94
14180 Sim Starting
14181 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1899.249999998893
14182 Ai: 49 Gen: 94
14183 Sim Starting
14184 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2530.499999997904
14185 Ai: 0 Gen: 95
14186 Sim Starting
14187 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3981.499999995757
14188 Ai: 1 Gen: 95
14189 Sim Starting
14190 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2714.3000000000593
14191 Ai: 2 Gen: 95
14192 Sim Starting
```

```
14193 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 936.7000000000236
14194 Ai: 3 Gen: 95
14195 Sim Starting
14196 Sim over Total pop = 0 Tick Complete = 8259
    Fitness = 1184.75000000002
14197 Ai: 4 Gen: 95
14198 Sim Starting
14199 Sim over Total pop = 0 Tick Complete = 6050
    Fitness = 620.6999999999925
14200 Ai: 5 Gen: 95
14201 Sim Starting
14202 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3888.4999999995935
14203 Ai: 6 Gen: 95
14204 Sim Starting
14205 Sim over Total pop = 0 Tick Complete = 580
    Fitness = 146.0
14206 Ai: 7 Gen: 95
14207 Sim Starting
14208 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1378.1000000000245
14209 Ai: 8 Gen: 95
14210 Sim Starting
14211 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 134.64999999999998
14212 Ai: 9 Gen: 95
14213 Sim Starting
14214 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14215 Ai: 10 Gen: 95
14216 Sim Starting
14217 Sim over Total pop = 0 Tick Complete = 6611
    Fitness = 363.8000000000033
14218 Ai: 11 Gen: 95
14219 Sim Starting
14220 Sim over Total pop = 0 Tick Complete = 8547
    Fitness = 1223.2500000000462
14221 Ai: 12 Gen: 95
14222 Sim Starting
14223 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
14224 Ai: 13 Gen: 95
14225 Sim Starting
```

```
14226 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.5000000000209
14227 Ai: 14 Gen: 95
14228 Sim Starting
14229 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -204.5
14230 Ai: 15 Gen: 95
14231 Sim Starting
14232 Sim over Total pop = 0 Tick Complete = 7535
    Fitness = 1466.3500000000047
14233 Ai: 16 Gen: 95
14234 Sim Starting
14235 Sim over Total pop = 0 Tick Complete = 15301
    Fitness = 1823.4500000000596
14236 Ai: 17 Gen: 95
14237 Sim Starting
14238 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1577.450000000069
14239 Ai: 18 Gen: 95
14240 Sim Starting
14241 Sim over Total pop = 0 Tick Complete = 17784
    Fitness = 1561.1499999999942
14242 Ai: 19 Gen: 95
14243 Sim Starting
14244 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14245 Ai: 20 Gen: 95
14246 Sim Starting
14247 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1063.3500000000295
14248 Ai: 21 Gen: 95
14249 Sim Starting
14250 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2134.600000000134
14251 Ai: 22 Gen: 95
14252 Sim Starting
14253 Sim over Total pop = 0 Tick Complete = 3030
    Fitness = 674.0000000000023
14254 Ai: 23 Gen: 95
14255 Sim Starting
14256 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14257 Ai: 24 Gen: 95
14258 Sim Starting
```

```
14259 Sim over Total pop = 0 Tick Complete = 12056
    Fitness = 425.7000000000045
14260 Ai: 25 Gen: 95
14261 Sim Starting
14262 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1750.49999999989
14263 Ai: 26 Gen: 95
14264 Sim Starting
14265 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3434.99999999966
14266 Ai: 27 Gen: 95
14267 Sim Starting
14268 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2948.0999999997293
14269 Ai: 28 Gen: 95
14270 Sim Starting
14271 Sim over Total pop = 0 Tick Complete = 8362
    Fitness = 1081.2499999999698
14272 Ai: 29 Gen: 95
14273 Sim Starting
14274 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -199.55
14275 Ai: 30 Gen: 95
14276 Sim Starting
14277 Sim over Total pop = 0 Tick Complete = 19074
    Fitness = 910.700000000024
14278 Ai: 31 Gen: 95
14279 Sim Starting
14280 Sim over Total pop = 0 Tick Complete = 14520
    Fitness = 1461.2500000000402
14281 Ai: 32 Gen: 95
14282 Sim Starting
14283 Sim over Total pop = 0 Tick Complete = 14872
    Fitness = 2050.6000000000677
14284 Ai: 33 Gen: 95
14285 Sim Starting
14286 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2882.699999999898
14287 Ai: 34 Gen: 95
14288 Sim Starting
14289 Sim over Total pop = 0 Tick Complete = 7125
    Fitness = 645.699999999992
14290 Ai: 35 Gen: 95
14291 Sim Starting
```

```
14292 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14293 Ai: 36 Gen: 95
14294 Sim Starting
14295 Sim over Total pop = 0 Tick Complete = 12859
    Fitness = 2180.2000000000853
14296 Ai: 37 Gen: 95
14297 Sim Starting
14298 Sim over Total pop = 0 Tick Complete = 2607
    Fitness = 35.35000000000018
14299 Ai: 38 Gen: 95
14300 Sim Starting
14301 Sim over Total pop = 0 Tick Complete = 6292
    Fitness = 722.249999999995
14302 Ai: 39 Gen: 95
14303 Sim Starting
14304 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 2389.599999999994
14305 Ai: 40 Gen: 95
14306 Sim Starting
14307 Sim over Total pop = 0 Tick Complete = 3737
    Fitness = 431.2000000000226
14308 Ai: 41 Gen: 95
14309 Sim Starting
14310 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14311 Ai: 42 Gen: 95
14312 Sim Starting
14313 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
14314 Ai: 43 Gen: 95
14315 Sim Starting
14316 Sim over Total pop = 0 Tick Complete = 10689
    Fitness = 1510.4000000000347
14317 Ai: 44 Gen: 95
14318 Sim Starting
14319 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -196.2
14320 Ai: 45 Gen: 95
14321 Sim Starting
14322 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 881.200000000021
14323 Ai: 46 Gen: 95
14324 Sim Starting
```

```
14325 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3951.3999999998164
14326 Ai: 47 Gen: 95
14327 Sim Starting
14328 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 882.350000000021
14329 Ai: 48 Gen: 95
14330 Sim Starting
14331 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
14332 Ai: 49 Gen: 95
14333 Sim Starting
14334 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1596.1000000000756
14335 Ai: 0 Gen: 96
14336 Sim Starting
14337 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2445.999999999808
14338 Ai: 1 Gen: 96
14339 Sim Starting
14340 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1889.5999999998864
14341 Ai: 2 Gen: 96
14342 Sim Starting
14343 Sim over Total pop = 0 Tick Complete = 2895
    Fitness = 697.7999999999993
14344 Ai: 3 Gen: 96
14345 Sim Starting
14346 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.15
14347 Ai: 4 Gen: 96
14348 Sim Starting
14349 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1749.4499999998986
14350 Ai: 5 Gen: 96
14351 Sim Starting
14352 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2470.499999999802
14353 Ai: 6 Gen: 96
14354 Sim Starting
14355 Sim over Total pop = 0 Tick Complete = 489
    Fitness = -205.0
14356 Ai: 7 Gen: 96
14357 Sim Starting
```

```
14358 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3375.999999999667
14359 Ai: 8 Gen: 96
14360 Sim Starting
14361 Sim over Total pop = 0 Tick Complete = 6993
    Fitness = 1312.2500000000102
14362 Ai: 9 Gen: 96
14363 Sim Starting
14364 Sim over Total pop = 0 Tick Complete = 14729
    Fitness = 2059.599999999973
14365 Ai: 10 Gen: 96
14366 Sim Starting
14367 Sim over Total pop = 0 Tick Complete = 4675
    Fitness = 558.1000000000001
14368 Ai: 11 Gen: 96
14369 Sim Starting
14370 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3255.9999999996826
14371 Ai: 12 Gen: 96
14372 Sim Starting
14373 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 1965.8999999998837
14374 Ai: 13 Gen: 96
14375 Sim Starting
14376 Sim over Total pop = 0 Tick Complete = 9850
    Fitness = 1224.5500000000206
14377 Ai: 14 Gen: 96
14378 Sim Starting
14379 Sim over Total pop = 0 Tick Complete = 8811
    Fitness = 1213.4499999999996
14380 Ai: 15 Gen: 96
14381 Sim Starting
14382 Sim over Total pop = 0 Tick Complete = 8734
    Fitness = 1334.000000000432
14383 Ai: 16 Gen: 96
14384 Sim Starting
14385 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1453.5499999999515
14386 Ai: 17 Gen: 96
14387 Sim Starting
14388 Sim over Total pop = 0 Tick Complete = 15342
    Fitness = 1785.3000000000839
14389 Ai: 18 Gen: 96
14390 Sim Starting
```

```
14391 Sim over Total pop = 0 Tick Complete = 3047
    Fitness = 336.5499999999985
14392 Ai: 19 Gen: 96
14393 Sim Starting
14394 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14395 Ai: 20 Gen: 96
14396 Sim Starting
14397 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14398 Ai: 21 Gen: 96
14399 Sim Starting
14400 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 381.35000000000025
14401 Ai: 22 Gen: 96
14402 Sim Starting
14403 Sim over Total pop = 0 Tick Complete = 8261
    Fitness = 1653.6500000000033
14404 Ai: 23 Gen: 96
14405 Sim Starting
14406 Sim over Total pop = 0 Tick Complete = 14201
    Fitness = 1621.0000000000625
14407 Ai: 24 Gen: 96
14408 Sim Starting
14409 Sim over Total pop = 0 Tick Complete = 7293
    Fitness = 258.7999999999999
14410 Ai: 25 Gen: 96
14411 Sim Starting
14412 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3211.499999996894
14413 Ai: 26 Gen: 96
14414 Sim Starting
14415 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2933.49999999835
14416 Ai: 27 Gen: 96
14417 Sim Starting
14418 Sim over Total pop = 0 Tick Complete = 577
    Fitness = 146.5
14419 Ai: 28 Gen: 96
14420 Sim Starting
14421 Sim over Total pop = 0 Tick Complete = 13222
    Fitness = 1326.0499999999852
14422 Ai: 29 Gen: 96
14423 Sim Starting
```

```
14424 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1186.4000000000003
14425 Ai: 30 Gen: 96
14426 Sim Starting
14427 Sim over Total pop = 0 Tick Complete = 998
    Fitness = -35.15000000000005
14428 Ai: 31 Gen: 96
14429 Sim Starting
14430 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2865.999999997526
14431 Ai: 32 Gen: 96
14432 Sim Starting
14433 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3182.749999997813
14434 Ai: 33 Gen: 96
14435 Sim Starting
14436 Sim over Total pop = 0 Tick Complete = 12600
    Fitness = 864.5500000000192
14437 Ai: 34 Gen: 96
14438 Sim Starting
14439 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2505.59999999808
14440 Ai: 35 Gen: 96
14441 Sim Starting
14442 Sim over Total pop = 0 Tick Complete = 503
    Fitness = -204.25
14443 Ai: 36 Gen: 96
14444 Sim Starting
14445 Sim over Total pop = 0 Tick Complete = 6578
    Fitness = 188.7499999999864
14446 Ai: 37 Gen: 96
14447 Sim Starting
14448 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2672.599999997707
14449 Ai: 38 Gen: 96
14450 Sim Starting
14451 Sim over Total pop = 0 Tick Complete = 8379
    Fitness = 1212.799999999974
14452 Ai: 39 Gen: 96
14453 Sim Starting
14454 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.5
14455 Ai: 40 Gen: 96
14456 Sim Starting
```

```
14457 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.89999999999998
14458 Ai: 41 Gen: 96
14459 Sim Starting
14460 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1781.9999999999095
14461 Ai: 42 Gen: 96
14462 Sim Starting
14463 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
14464 Ai: 43 Gen: 96
14465 Sim Starting
14466 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
14467 Ai: 44 Gen: 96
14468 Sim Starting
14469 Sim over Total pop = 0 Tick Complete = 8192
    Fitness = 214.9999999999744
14470 Ai: 45 Gen: 96
14471 Sim Starting
14472 Sim over Total pop = 0 Tick Complete = 19756
    Fitness = 845.5000000000203
14473 Ai: 46 Gen: 96
14474 Sim Starting
14475 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.35
14476 Ai: 47 Gen: 96
14477 Sim Starting
14478 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14479 Ai: 48 Gen: 96
14480 Sim Starting
14481 Sim over Total pop = 0 Tick Complete = 17226
    Fitness = 937.05
14482 Ai: 49 Gen: 96
14483 Sim Starting
14484 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14485 Ai: 0 Gen: 97
14486 Sim Starting
14487 Sim over Total pop = 0 Tick Complete = 15345
    Fitness = 815.0000000000193
14488 Ai: 1 Gen: 97
14489 Sim Starting
```

```
14490 Sim over Total pop = 7 Tick Complete = 20001
    Fitness = 3146.2999999998433
14491 Ai: 2 Gen: 97
14492 Sim Starting
14493 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1930.6499999998846
14494 Ai: 3 Gen: 97
14495 Sim Starting
14496 Sim over Total pop = 0 Tick Complete = 18727
    Fitness = 1199.5999999999915
14497 Ai: 4 Gen: 97
14498 Sim Starting
14499 Sim over Total pop = 0 Tick Complete = 4169
    Fitness = 446.95000000000067
14500 Ai: 5 Gen: 97
14501 Sim Starting
14502 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 165.6499999999996
14503 Ai: 6 Gen: 97
14504 Sim Starting
14505 Sim over Total pop = 0 Tick Complete = 9977
    Fitness = 1238.5999999999974
14506 Ai: 7 Gen: 97
14507 Sim Starting
14508 Sim over Total pop = 0 Tick Complete = 15147
    Fitness = 594.6500000000109
14509 Ai: 8 Gen: 97
14510 Sim Starting
14511 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
14512 Ai: 9 Gen: 97
14513 Sim Starting
14514 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14515 Ai: 10 Gen: 97
14516 Sim Starting
14517 Sim over Total pop = 0 Tick Complete = 17017
    Fitness = 1747.3999999998928
14518 Ai: 11 Gen: 97
14519 Sim Starting
14520 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2503.999999999872
14521 Ai: 12 Gen: 97
14522 Sim Starting
```

```
14523 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2572.9999999997867
14524 Ai: 13 Gen: 97
14525 Sim Starting
14526 Sim over Total pop = 0 Tick Complete = 17539
    Fitness = 1757.0999999998933
14527 Ai: 14 Gen: 97
14528 Sim Starting
14529 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 296.7000000000203
14530 Ai: 15 Gen: 97
14531 Sim Starting
14532 Sim over Total pop = 0 Tick Complete = 12320
    Fitness = 1244.650000000037
14533 Ai: 16 Gen: 97
14534 Sim Starting
14535 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -144.65
14536 Ai: 17 Gen: 97
14537 Sim Starting
14538 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
14539 Ai: 18 Gen: 97
14540 Sim Starting
14541 Sim over Total pop = 0 Tick Complete = 15400
    Fitness = 1653.99999999953
14542 Ai: 19 Gen: 97
14543 Sim Starting
14544 Sim over Total pop = 0 Tick Complete = 11121
    Fitness = 1864.799999999997
14545 Ai: 20 Gen: 97
14546 Sim Starting
14547 Sim over Total pop = 0 Tick Complete = 2937
    Fitness = 586.799999999999
14548 Ai: 21 Gen: 97
14549 Sim Starting
14550 Sim over Total pop = 0 Tick Complete = 7557
    Fitness = 978.099999999743
14551 Ai: 22 Gen: 97
14552 Sim Starting
14553 Sim over Total pop = 0 Tick Complete = 5962
    Fitness = 860.499999999976
14554 Ai: 23 Gen: 97
14555 Sim Starting
```

```
14556 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2380.7499999998195
14557 Ai: 24 Gen: 97
14558 Sim Starting
14559 Sim over Total pop = 0 Tick Complete = 19852
    Fitness = 2857.5499999999647
14560 Ai: 25 Gen: 97
14561 Sim Starting
14562 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2925.249999999904
14563 Ai: 26 Gen: 97
14564 Sim Starting
14565 Sim over Total pop = 0 Tick Complete = 18092
    Fitness = 2374.049999999855
14566 Ai: 27 Gen: 97
14567 Sim Starting
14568 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2265.99999999984
14569 Ai: 28 Gen: 97
14570 Sim Starting
14571 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1891.8999999999796
14572 Ai: 29 Gen: 97
14573 Sim Starting
14574 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1250.0999999999913
14575 Ai: 30 Gen: 97
14576 Sim Starting
14577 Sim over Total pop = 0 Tick Complete = 6701
    Fitness = 788.3500000000056
14578 Ai: 31 Gen: 97
14579 Sim Starting
14580 Sim over Total pop = 0 Tick Complete = 5852
    Fitness = 729.8500000000066
14581 Ai: 32 Gen: 97
14582 Sim Starting
14583 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 4231.84999999976
14584 Ai: 33 Gen: 97
14585 Sim Starting
14586 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2235.9999999998436
14587 Ai: 34 Gen: 97
14588 Sim Starting
```

```
14589 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2235.9999999998436
14590 Ai: 35 Gen: 97
14591 Sim Starting
14592 Sim over Total pop = 0 Tick Complete = 497
    Fitness = -150.0
14593 Ai: 36 Gen: 97
14594 Sim Starting
14595 Sim over Total pop = 0 Tick Complete = 7744
    Fitness = 1134.2500000000107
14596 Ai: 37 Gen: 97
14597 Sim Starting
14598 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14599 Ai: 38 Gen: 97
14600 Sim Starting
14601 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14602 Ai: 39 Gen: 97
14603 Sim Starting
14604 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 186.4999999999952
14605 Ai: 40 Gen: 97
14606 Sim Starting
14607 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 747.5000000000002
14608 Ai: 41 Gen: 97
14609 Sim Starting
14610 Sim over Total pop = 0 Tick Complete = 635
    Fitness = 344.5
14611 Ai: 42 Gen: 97
14612 Sim Starting
14613 Sim over Total pop = 0 Tick Complete = 11220
    Fitness = 1079.799999999945
14614 Ai: 43 Gen: 97
14615 Sim Starting
14616 Sim over Total pop = 0 Tick Complete = 10395
    Fitness = 1439.2000000000307
14617 Ai: 44 Gen: 97
14618 Sim Starting
14619 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3286.449999999894
14620 Ai: 45 Gen: 97
14621 Sim Starting
```

```
14622 Sim over Total pop = 0 Tick Complete = 9985
    Fitness = 492.9000000000053
14623 Ai: 46 Gen: 97
14624 Sim Starting
14625 Sim over Total pop = 0 Tick Complete = 6765
    Fitness = 344.0000000000006
14626 Ai: 47 Gen: 97
14627 Sim Starting
14628 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.4
14629 Ai: 48 Gen: 97
14630 Sim Starting
14631 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 2050.399999999916
14632 Ai: 49 Gen: 97
14633 Sim Starting
14634 Sim over Total pop = 0 Tick Complete = 11646
    Fitness = 1539.550000000003
14635 Ai: 0 Gen: 98
14636 Sim Starting
14637 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3209.099999996907
14638 Ai: 1 Gen: 98
14639 Sim Starting
14640 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2205.99999999848
14641 Ai: 2 Gen: 98
14642 Sim Starting
14643 Sim over Total pop = 0 Tick Complete = 15394
    Fitness = 1496.700000000492
14644 Ai: 3 Gen: 98
14645 Sim Starting
14646 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 157.3999999999998
14647 Ai: 4 Gen: 98
14648 Sim Starting
14649 Sim over Total pop = 0 Tick Complete = 13871
    Fitness = 2056.049999999197
14650 Ai: 5 Gen: 98
14651 Sim Starting
14652 Sim over Total pop = 0 Tick Complete = 16445
    Fitness = 2182.449999999803
14653 Ai: 6 Gen: 98
14654 Sim Starting
```

```
14655 Sim over Total pop = 0 Tick Complete = 7832
    Fitness = 1031.3000000000266
14656 Ai: 7 Gen: 98
14657 Sim Starting
14658 Sim over Total pop = 0 Tick Complete = 19195
    Fitness = 1025.0000000000232
14659 Ai: 8 Gen: 98
14660 Sim Starting
14661 Sim over Total pop = 0 Tick Complete = 4246
    Fitness = 151.2000000000093
14662 Ai: 9 Gen: 98
14663 Sim Starting
14664 Sim over Total pop = 0 Tick Complete = 12100
    Fitness = 858.249999999982
14665 Ai: 10 Gen: 98
14666 Sim Starting
14667 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 297.69999999999897
14668 Ai: 11 Gen: 98
14669 Sim Starting
14670 Sim over Total pop = 0 Tick Complete = 14949
    Fitness = 1206.4000000000242
14671 Ai: 12 Gen: 98
14672 Sim Starting
14673 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1780.4999999999088
14674 Ai: 13 Gen: 98
14675 Sim Starting
14676 Sim over Total pop = 0 Tick Complete = 13153
    Fitness = 485.5000000000067
14677 Ai: 14 Gen: 98
14678 Sim Starting
14679 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14680 Ai: 15 Gen: 98
14681 Sim Starting
14682 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
14683 Ai: 16 Gen: 98
14684 Sim Starting
14685 Sim over Total pop = 0 Tick Complete = 15345
    Fitness = 1988.249999999953
14686 Ai: 17 Gen: 98
14687 Sim Starting
```

```
14688 Sim over Total pop = 0 Tick Complete = 10516
    Fitness = 1958.999999999962
14689 Ai: 18 Gen: 98
14690 Sim Starting
14691 Sim over Total pop = 0 Tick Complete = 15708
    Fitness = 2182.6000000000404
14692 Ai: 19 Gen: 98
14693 Sim Starting
14694 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
14695 Ai: 20 Gen: 98
14696 Sim Starting
14697 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2500.49999999795
14698 Ai: 21 Gen: 98
14699 Sim Starting
14700 Sim over Total pop = 0 Tick Complete = 591
    Fitness = -88.75
14701 Ai: 22 Gen: 98
14702 Sim Starting
14703 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1264.39999999991
14704 Ai: 23 Gen: 98
14705 Sim Starting
14706 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3974.849999999607
14707 Ai: 24 Gen: 98
14708 Sim Starting
14709 Sim over Total pop = 0 Tick Complete = 16989
    Fitness = 2754.400000000074
14710 Ai: 25 Gen: 98
14711 Sim Starting
14712 Sim over Total pop = 0 Tick Complete = 8569
    Fitness = 1237.300000000005
14713 Ai: 26 Gen: 98
14714 Sim Starting
14715 Sim over Total pop = 0 Tick Complete = 3003
    Fitness = 336.349999999977
14716 Ai: 27 Gen: 98
14717 Sim Starting
14718 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3145.749999999853
14719 Ai: 28 Gen: 98
14720 Sim Starting
```

```
14721 Sim over Total pop = 0 Tick Complete = 8071
    Fitness = 1094.50000000000196
14722 Ai: 29 Gen: 98
14723 Sim Starting
14724 Sim over Total pop = 0 Tick Complete = 18249
    Fitness = 1836.40000000000194
14725 Ai: 30 Gen: 98
14726 Sim Starting
14727 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
14728 Ai: 31 Gen: 98
14729 Sim Starting
14730 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2637.3499999998294
14731 Ai: 32 Gen: 98
14732 Sim Starting
14733 Sim over Total pop = 0 Tick Complete = 1361
    Fitness = 166.0
14734 Ai: 33 Gen: 98
14735 Sim Starting
14736 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14737 Ai: 34 Gen: 98
14738 Sim Starting
14739 Sim over Total pop = 0 Tick Complete = 18744
    Fitness = 980.9500000000261
14740 Ai: 35 Gen: 98
14741 Sim Starting
14742 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3495.999999999646
14743 Ai: 36 Gen: 98
14744 Sim Starting
14745 Sim over Total pop = 0 Tick Complete = 15914
    Fitness = 1775.449999999998
14746 Ai: 37 Gen: 98
14747 Sim Starting
14748 Sim over Total pop = 0 Tick Complete = 2838
    Fitness = 818.7500000000011
14749 Ai: 38 Gen: 98
14750 Sim Starting
14751 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 449.949999999998
14752 Ai: 39 Gen: 98
14753 Sim Starting
```

```
14754 Sim over Total pop = 0 Tick Complete = 6930
    Fitness = 797.0999999999976
14755 Ai: 40 Gen: 98
14756 Sim Starting
14757 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14758 Ai: 41 Gen: 98
14759 Sim Starting
14760 Sim over Total pop = 0 Tick Complete = 4488
    Fitness = 308.0
14761 Ai: 42 Gen: 98
14762 Sim Starting
14763 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14764 Ai: 43 Gen: 98
14765 Sim Starting
14766 Sim over Total pop = 0 Tick Complete = 2893
    Fitness = 235.5
14767 Ai: 44 Gen: 98
14768 Sim Starting
14769 Sim over Total pop = 0 Tick Complete = 7931
    Fitness = 948.199999999984
14770 Ai: 45 Gen: 98
14771 Sim Starting
14772 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3051.4999999997194
14773 Ai: 46 Gen: 98
14774 Sim Starting
14775 Sim over Total pop = 0 Tick Complete = 6762
    Fitness = 1399.4499999999816
14776 Ai: 47 Gen: 98
14777 Sim Starting
14778 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 3476.2999999996796
14779 Ai: 48 Gen: 98
14780 Sim Starting
14781 Sim over Total pop = 0 Tick Complete = 9644
    Fitness = 1573.1499999999705
14782 Ai: 49 Gen: 98
14783 Sim Starting
14784 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14785 Ai: 0 Gen: 99
14786 Sim Starting
```

```
14787 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2769.7499999998004
14788 Ai: 1 Gen: 99
14789 Sim Starting
14790 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2380.499999999816
14791 Ai: 2 Gen: 99
14792 Sim Starting
14793 Sim over Total pop = 0 Tick Complete = 17000
    Fitness = 2708.8999999997613
14794 Ai: 3 Gen: 99
14795 Sim Starting
14796 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1810.4999999999052
14797 Ai: 4 Gen: 99
14798 Sim Starting
14799 Sim over Total pop = 0 Tick Complete = 19456
    Fitness = 2798.0000000001337
14800 Ai: 5 Gen: 99
14801 Sim Starting
14802 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 132.0
14803 Ai: 6 Gen: 99
14804 Sim Starting
14805 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14806 Ai: 7 Gen: 99
14807 Sim Starting
14808 Sim over Total pop = 0 Tick Complete = 10230
    Fitness = 921.2500000000265
14809 Ai: 8 Gen: 99
14810 Sim Starting
14811 Sim over Total pop = 0 Tick Complete = 15191
    Fitness = 601.9500000000007
14812 Ai: 9 Gen: 99
14813 Sim Starting
14814 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1492.9999999999561
14815 Ai: 10 Gen: 99
14816 Sim Starting
14817 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 883.4500000000211
14818 Ai: 11 Gen: 99
14819 Sim Starting
```

```
14820 Sim over Total pop = 0 Tick Complete = 4383
    Fitness = 6.999999999999009
14821 Ai: 12 Gen: 99
14822 Sim Starting
14823 Sim over Total pop = 0 Tick Complete = 13695
    Fitness = 1255.0000000000082
14824 Ai: 13 Gen: 99
14825 Sim Starting
14826 Sim over Total pop = 0 Tick Complete = 4037
    Fitness = 474.3499999999553
14827 Ai: 14 Gen: 99
14828 Sim Starting
14829 Sim over Total pop = 0 Tick Complete = 13629
    Fitness = 1415.9500000000344
14830 Ai: 15 Gen: 99
14831 Sim Starting
14832 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2415.999999999817
14833 Ai: 16 Gen: 99
14834 Sim Starting
14835 Sim over Total pop = 0 Tick Complete = 580
    Fitness = -191.05
14836 Ai: 17 Gen: 99
14837 Sim Starting
14838 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1570.499999999407
14839 Ai: 18 Gen: 99
14840 Sim Starting
14841 Sim over Total pop = 0 Tick Complete = 6289
    Fitness = 752.499999999996
14842 Ai: 19 Gen: 99
14843 Sim Starting
14844 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 175.05000000000047
14845 Ai: 20 Gen: 99
14846 Sim Starting
14847 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2764.5999999997607
14848 Ai: 21 Gen: 99
14849 Sim Starting
14850 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2475.9999999998035
14851 Ai: 22 Gen: 99
14852 Sim Starting
```

```
14853 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2355.9999999998245
14854 Ai: 23 Gen: 99
14855 Sim Starting
14856 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2470.999999999805
14857 Ai: 24 Gen: 99
14858 Sim Starting
14859 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2736.499999999895
14860 Ai: 25 Gen: 99
14861 Sim Starting
14862 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2978.099999999725
14863 Ai: 26 Gen: 99
14864 Sim Starting
14865 Sim over Total pop = 0 Tick Complete = 2501
    Fitness = 218.0
14866 Ai: 27 Gen: 99
14867 Sim Starting
14868 Sim over Total pop = 0 Tick Complete = 9526
    Fitness = 1841.749999999905
14869 Ai: 28 Gen: 99
14870 Sim Starting
14871 Sim over Total pop = 0 Tick Complete = 3399
    Fitness = 388.0999999999786
14872 Ai: 29 Gen: 99
14873 Sim Starting
14874 Sim over Total pop = 0 Tick Complete = 16071
    Fitness = 2464.550000000176
14875 Ai: 30 Gen: 99
14876 Sim Starting
14877 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2811.349999999785
14878 Ai: 31 Gen: 99
14879 Sim Starting
14880 Sim over Total pop = 0 Tick Complete = 2637
    Fitness = 302.05000000000047
14881 Ai: 32 Gen: 99
14882 Sim Starting
14883 Sim over Total pop = 0 Tick Complete = 4697
    Fitness = 225.000000000000108
14884 Ai: 33 Gen: 99
14885 Sim Starting
```

```
14886 Sim over Total pop = 0 Tick Complete = 3509
    Fitness = 649.3000000000013
14887 Ai: 34 Gen: 99
14888 Sim Starting
14889 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1621.0999999999096
14890 Ai: 35 Gen: 99
14891 Sim Starting
14892 Sim over Total pop = 0 Tick Complete = 13263
    Fitness = 1231.0499999999897
14893 Ai: 36 Gen: 99
14894 Sim Starting
14895 Sim over Total pop = 0 Tick Complete = 4752
    Fitness = 846.4500000000077
14896 Ai: 37 Gen: 99
14897 Sim Starting
14898 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1740.8999999999146
14899 Ai: 38 Gen: 99
14900 Sim Starting
14901 Sim over Total pop = 0 Tick Complete = 1405
    Fitness = 173.5
14902 Ai: 39 Gen: 99
14903 Sim Starting
14904 Sim over Total pop = 0 Tick Complete = 16445
    Fitness = 2190.099999999943
14905 Ai: 40 Gen: 99
14906 Sim Starting
14907 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
14908 Ai: 41 Gen: 99
14909 Sim Starting
14910 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14911 Ai: 42 Gen: 99
14912 Sim Starting
14913 Sim over Total pop = 0 Tick Complete = 16148
    Fitness = 723.3999999999854
14914 Ai: 43 Gen: 99
14915 Sim Starting
14916 Sim over Total pop = 0 Tick Complete = 2035
    Fitness = 243.1000000000003
14917 Ai: 44 Gen: 99
14918 Sim Starting
```

```
14919 Sim over Total pop = 4 Tick Complete = 20001
    Fitness = 2385.9999999998217
14920 Ai: 45 Gen: 99
14921 Sim Starting
14922 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2508.199999999793
14923 Ai: 46 Gen: 99
14924 Sim Starting
14925 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 3101.4999999998804
14926 Ai: 47 Gen: 99
14927 Sim Starting
14928 Sim over Total pop = 0 Tick Complete = 14654
    Fitness = 2043.49999999995
14929 Ai: 48 Gen: 99
14930 Sim Starting
14931 Sim over Total pop = 0 Tick Complete = 3960
    Fitness = 422.1499999999965
14932 Ai: 49 Gen: 99
14933 Sim Starting
14934 Sim over Total pop = 0 Tick Complete = 7557
    Fitness = 285.6
14935 Ai: 0 Gen: 100
14936 Sim Starting
14937 Sim over Total pop = 0 Tick Complete = 18315
    Fitness = 2864.0500000001334
14938 Ai: 1 Gen: 100
14939 Sim Starting
14940 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 3538.3999999998737
14941 Ai: 2 Gen: 100
14942 Sim Starting
14943 Sim over Total pop = 0 Tick Complete = 2978
    Fitness = 1183.2000000000005
14944 Ai: 3 Gen: 100
14945 Sim Starting
14946 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2517.1000000001845
14947 Ai: 4 Gen: 100
14948 Sim Starting
14949 Sim over Total pop = 0 Tick Complete = 1416
    Fitness = 287.60000000000036
14950 Ai: 5 Gen: 100
14951 Sim Starting
```

```
14952 Sim over Total pop = 0 Tick Complete = 13970
    Fitness = 1428.5500000000375
14953 Ai: 6 Gen: 100
14954 Sim Starting
14955 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2535.2499999997904
14956 Ai: 7 Gen: 100
14957 Sim Starting
14958 Sim over Total pop = 0 Tick Complete = 5200
    Fitness = 761.55
14959 Ai: 8 Gen: 100
14960 Sim Starting
14961 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14962 Ai: 9 Gen: 100
14963 Sim Starting
14964 Sim over Total pop = 0 Tick Complete = 14938
    Fitness = 2037.0999999999312
14965 Ai: 10 Gen: 100
14966 Sim Starting
14967 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2433.7999999998087
14968 Ai: 11 Gen: 100
14969 Sim Starting
14970 Sim over Total pop = 0 Tick Complete = 8489
    Fitness = 267.2500000000014
14971 Ai: 12 Gen: 100
14972 Sim Starting
14973 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14974 Ai: 13 Gen: 100
14975 Sim Starting
14976 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 980.9000000000258
14977 Ai: 14 Gen: 100
14978 Sim Starting
14979 Sim over Total pop = 0 Tick Complete = 11008
    Fitness = 1627.950000000014
14980 Ai: 15 Gen: 100
14981 Sim Starting
14982 Sim over Total pop = 0 Tick Complete = 6996
    Fitness = 621.3499999999977
14983 Ai: 16 Gen: 100
14984 Sim Starting
```

```
14985 Sim over Total pop = 0 Tick Complete = 9570
    Fitness = 1968.4000000000274
14986 Ai: 17 Gen: 100
14987 Sim Starting
14988 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
14989 Ai: 18 Gen: 100
14990 Sim Starting
14991 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2051.599999999865
14992 Ai: 19 Gen: 100
14993 Sim Starting
14994 Sim over Total pop = 0 Tick Complete = 492
    Fitness = -205.0
14995 Ai: 20 Gen: 100
14996 Sim Starting
14997 Sim over Total pop = 0 Tick Complete = 17248
    Fitness = 1500.349999999358
14998 Ai: 21 Gen: 100
14999 Sim Starting
15000 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -204.0
15001 Ai: 22 Gen: 100
15002 Sim Starting
15003 Sim over Total pop = 0 Tick Complete = 10472
    Fitness = 357.1500000000021
15004 Ai: 23 Gen: 100
15005 Sim Starting
15006 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 138.5
15007 Ai: 24 Gen: 100
15008 Sim Starting
15009 Sim over Total pop = 0 Tick Complete = 19195
    Fitness = 2159.99999999916
15010 Ai: 25 Gen: 100
15011 Sim Starting
15012 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 2172.850000000109
15013 Ai: 26 Gen: 100
15014 Sim Starting
15015 Sim over Total pop = 6 Tick Complete = 20001
    Fitness = 3376.599999999667
15016 Ai: 27 Gen: 100
15017 Sim Starting
```

```
15018 Sim over Total pop = 5 Tick Complete = 20001
    Fitness = 1720.30000000000068
15019 Ai: 28 Gen: 100
15020 Sim Starting
15021 Sim over Total pop = 0 Tick Complete = 15787
    Fitness = 753.0499999999839
15022 Ai: 29 Gen: 100
15023 Sim Starting
15024 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.4000000000209
15025 Ai: 30 Gen: 100
15026 Sim Starting
15027 Sim over Total pop = 0 Tick Complete = 9259
    Fitness = 928.2500000000114
15028 Ai: 31 Gen: 100
15029 Sim Starting
15030 Sim over Total pop = 0 Tick Complete = 15356
    Fitness = 605.5000000000113
15031 Ai: 32 Gen: 100
15032 Sim Starting
15033 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2260.3999999999839
15034 Ai: 33 Gen: 100
15035 Sim Starting
15036 Sim over Total pop = 0 Tick Complete = 19742
    Fitness = 3088.149999999977
15037 Ai: 34 Gen: 100
15038 Sim Starting
15039 Sim over Total pop = 3 Tick Complete = 20001
    Fitness = 1035.0
15040 Ai: 35 Gen: 100
15041 Sim Starting
15042 Sim over Total pop = 0 Tick Complete = 10227
    Fitness = 902.799999999979
15043 Ai: 36 Gen: 100
15044 Sim Starting
15045 Sim over Total pop = 0 Tick Complete = 4444
    Fitness = 707.0000000000064
15046 Ai: 37 Gen: 100
15047 Sim Starting
15048 Sim over Total pop = 0 Tick Complete = 3740
    Fitness = 859.1499999999996
15049 Ai: 38 Gen: 100
15050 Sim Starting
```

```
15051 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 525.9000000000015
15052 Ai: 39 Gen: 100
15053 Sim Starting
15054 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 880.550000000021
15055 Ai: 40 Gen: 100
15056 Sim Starting
15057 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2219.09999999843
15058 Ai: 41 Gen: 100
15059 Sim Starting
15060 Sim over Total pop = 0 Tick Complete = 6825
    Fitness = 861.300000000052
15061 Ai: 42 Gen: 100
15062 Sim Starting
15063 Sim over Total pop = 0 Tick Complete = 11495
    Fitness = 1228.7500000000205
15064 Ai: 43 Gen: 100
15065 Sim Starting
15066 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 2380.499999998186
15067 Ai: 44 Gen: 100
15068 Sim Starting
15069 Sim over Total pop = 0 Tick Complete = 16442
    Fitness = 2483.349999998958
15070 Ai: 45 Gen: 100
15071 Sim Starting
15072 Sim over Total pop = 0 Tick Complete = 10087
    Fitness = 1168.699999999998
15073 Ai: 46 Gen: 100
15074 Sim Starting
15075 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
15076 Ai: 47 Gen: 100
15077 Sim Starting
15078 Sim over Total pop = 2 Tick Complete = 20001
    Fitness = 1977.599999998794
15079 Ai: 48 Gen: 100
15080 Sim Starting
15081 Sim over Total pop = 0 Tick Complete = 3022
    Fitness = 241.5
15082 Ai: 49 Gen: 100
15083 Sim Starting
```

```
15084 Sim over Total pop = 0 Tick Complete = 10065
      Fitness = 869.6500000000163
15085
15086 Best genome:
15087 Key: 3489
15088 Fitness: 3538.399999998737
15089 Nodes:
15090     0 DefaultNodeGene(key=0, bias=-0.
9024999882518582, response=1.0, activation=tanh,
aggregation=sum)
15091     1 DefaultNodeGene(key=1, bias=0.
2469553867960559, response=1.0, activation=tanh,
aggregation=sum)
15092     2 DefaultNodeGene(key=2, bias=-0.
2385126261417832, response=1.0, activation=tanh,
aggregation=sum)
15093     3 DefaultNodeGene(key=3, bias=2.
389078204626927, response=1.0, activation=tanh,
aggregation=sum)
15094     4 DefaultNodeGene(key=4, bias=1.
8648347913156844, response=1.0, activation=tanh,
aggregation=sum)
15095     5 DefaultNodeGene(key=5, bias=-1.
2736070526909349, response=1.0, activation=tanh,
aggregation=sum)
15096     6 DefaultNodeGene(key=6, bias=3.
7027824360337074, response=1.0, activation=tanh,
aggregation=sum)
15097     7 DefaultNodeGene(key=7, bias=1.
2931632371659327, response=1.0, activation=tanh,
aggregation=sum)
15098     8 DefaultNodeGene(key=8, bias=-0.
19749325036788623, response=1.0, activation=tanh,
aggregation=sum)
15099     9 DefaultNodeGene(key=9, bias=0.
7478992996590959, response=1.0, activation=tanh,
aggregation=sum)
15100    10 DefaultNodeGene(key=10, bias=0.
0001326727692829155, response=1.0, activation=tanh
, aggregation=sum)
15101    11 DefaultNodeGene(key=11, bias=-3.
384823000462494, response=1.0, activation=tanh,
aggregation=sum)
15102    275 DefaultNodeGene(key=275, bias=0.
```

```
15102 36563984084174367, response=1.0, activation=tanh,  
      aggregation=sum)  
15103     883 DefaultNodeGene(key=883, bias=-0.  
      0841186053295931, response=1.0, activation=tanh,  
      aggregation=sum)  
15104     950 DefaultNodeGene(key=950, bias=-1.  
      0267793744197031, response=1.0, activation=tanh,  
      aggregation=sum)  
15105     1010 DefaultNodeGene(key=1010, bias=-1.  
      2043396224505782, response=1.0, activation=tanh,  
      aggregation=sum)  
15106 Connections:  
15107     DefaultConnectionGene(key=(-50, 275), weight=-  
      0.539224913316325, enabled=True)  
15108     DefaultConnectionGene(key=(-49, 275), weight=-  
      0.09264663419233887, enabled=True)  
15109     DefaultConnectionGene(key=(-48, 275), weight=-  
      0.7175284356016535, enabled=True)  
15110     DefaultConnectionGene(key=(-47, 275), weight=1  
      .375177355704333, enabled=False)  
15111     DefaultConnectionGene(key=(-46, 10), weight=-5  
      .795483425719998, enabled=True)  
15112     DefaultConnectionGene(key=(-46, 275), weight=0  
      .3537281916392125, enabled=True)  
15113     DefaultConnectionGene(key=(-45, 275), weight=0  
      .26729194562154046, enabled=False)  
15114     DefaultConnectionGene(key=(-44, 4), weight=-3.  
      1868244554256786, enabled=True)  
15115     DefaultConnectionGene(key=(-42, 275), weight=1  
      .3345620710454311, enabled=False)  
15116     DefaultConnectionGene(key=(-42, 1010), weight  
      =-0.26056380114151145, enabled=True)  
15117     DefaultConnectionGene(key=(-41, 275), weight=-  
      2.526640701130742, enabled=True)  
15118     DefaultConnectionGene(key=(-40, 275), weight=1  
      .8546270296771046, enabled=True)  
15119     DefaultConnectionGene(key=(-39, 275), weight=-  
      0.9096011540021739, enabled=True)  
15120     DefaultConnectionGene(key=(-38, 6), weight=0.  
      6906065545227164, enabled=True)  
15121     DefaultConnectionGene(key=(-38, 275), weight=-  
      0.03892729314292209, enabled=False)  
15122     DefaultConnectionGene(key=(-37, 275), weight=-  
      2.3015973138369716, enabled=False)
```

```
15123     DefaultConnectionGene(key=(-35, 275), weight=2
.819230791626537, enabled=True)
15124     DefaultConnectionGene(key=(-34, 275), weight=2
.862903910675405, enabled=True)
15125     DefaultConnectionGene(key=(-33, 275), weight=-
0.38930415266988616, enabled=True)
15126     DefaultConnectionGene(key=(-31, 275), weight=0
.5166431135164137, enabled=True)
15127     DefaultConnectionGene(key=(-30, 275), weight=1
.8141720022368188, enabled=False)
15128     DefaultConnectionGene(key=(-30, 883), weight=-
1.5685800362250806, enabled=True)
15129     DefaultConnectionGene(key=(-29, 275), weight=2
.2922933334901097, enabled=True)
15130     DefaultConnectionGene(key=(-28, 275), weight=1
.4769724087777756, enabled=True)
15131     DefaultConnectionGene(key=(-26, 275), weight=1
.1889805888863207, enabled=True)
15132     DefaultConnectionGene(key=(-25, 275), weight=0
.8819768247616012, enabled=False)
15133     DefaultConnectionGene(key=(-24, 7), weight=2.
1959790494155507, enabled=True)
15134     DefaultConnectionGene(key=(-24, 275), weight=-
0.6852458083580055, enabled=True)
15135     DefaultConnectionGene(key=(-23, 8), weight=0.
4714019542746604, enabled=True)
15136     DefaultConnectionGene(key=(-23, 275), weight=0
.19384537929751033, enabled=False)
15137     DefaultConnectionGene(key=(-22, 1), weight=-0.
23923235348828392, enabled=False)
15138     DefaultConnectionGene(key=(-22, 2), weight=-0.
3118705297615152, enabled=False)
15139     DefaultConnectionGene(key=(-22, 6), weight=0.
7141578224897368, enabled=True)
15140     DefaultConnectionGene(key=(-22, 275), weight=-
3.468931514347074, enabled=True)
15141     DefaultConnectionGene(key=(-22, 950), weight=1
.541819756744377, enabled=True)
15142     DefaultConnectionGene(key=(-21, 0), weight=-0.
13419867359738646, enabled=True)
15143     DefaultConnectionGene(key=(-21, 10), weight=8.
376562277765078, enabled=True)
15144     DefaultConnectionGene(key=(-21, 11), weight=1.
2192941974692073, enabled=True)
```

```
15145     DefaultConnectionGene(key=(-21, 275), weight=-  
1.632673227591886, enabled=False)  
15146     DefaultConnectionGene(key=(-20, 275), weight=0  
.7991790746926255, enabled=True)  
15147     DefaultConnectionGene(key=(-19, 5), weight=-0.  
7318964512578506, enabled=True)  
15148     DefaultConnectionGene(key=(-19, 275), weight=-  
0.5808745369840187, enabled=True)  
15149     DefaultConnectionGene(key=(-16, 275), weight=-  
1.2192648317116688, enabled=True)  
15150     DefaultConnectionGene(key=(-15, 275), weight=1  
.6702165400787434, enabled=True)  
15151     DefaultConnectionGene(key=(-14, 275), weight=1  
.4843580698223586, enabled=True)  
15152     DefaultConnectionGene(key=(-13, 1), weight=-1.  
6301344866168543, enabled=True)  
15153     DefaultConnectionGene(key=(-13, 275), weight=-  
2.9717302277299673, enabled=False)  
15154     DefaultConnectionGene(key=(-12, 275), weight=-  
0.7059481555684701, enabled=True)  
15155     DefaultConnectionGene(key=(-11, 275), weight=2  
.7367108677065373, enabled=True)  
15156     DefaultConnectionGene(key=(-10, 275), weight=-  
2.002325715889812, enabled=True)  
15157     DefaultConnectionGene(key=(-9, 275), weight=-1  
.2864452309383088, enabled=False)  
15158     DefaultConnectionGene(key=(-8, 275), weight=-0  
.5362577717501054, enabled=False)  
15159     DefaultConnectionGene(key=(-7, 275), weight=-1  
.1522789122918413, enabled=True)  
15160     DefaultConnectionGene(key=(-6, 275), weight=-0  
.6059181733822755, enabled=False)  
15161     DefaultConnectionGene(key=(-5, 275), weight=-1  
.8372858192422832, enabled=True)  
15162     DefaultConnectionGene(key=(-4, 6), weight=2.  
311618672087196, enabled=True)  
15163     DefaultConnectionGene(key=(-3, 275), weight=-2  
.568740286558864, enabled=True)  
15164     DefaultConnectionGene(key=(-2, 275), weight=2.  
735123382556685, enabled=True)  
15165     DefaultConnectionGene(key=(275, 2), weight=0.  
07166183311368579, enabled=True)  
15166     DefaultConnectionGene(key=(275, 3), weight=-3.  
8301376650729186, enabled=True)
```

```
15167     DefaultConnectionGene(key=(275, 4), weight=-3.  
        4395941212016976, enabled=True)  
15168     DefaultConnectionGene(key=(275, 5), weight=0.  
        7569278198811178, enabled=True)  
15169     DefaultConnectionGene(key=(275, 7), weight=-0.  
        804599016012024, enabled=False)  
15170     DefaultConnectionGene(key=(275, 8), weight=1.  
        6566358399996868, enabled=True)  
15171     DefaultConnectionGene(key=(275, 9), weight=-1.  
        3018733441035089, enabled=True)  
15172     DefaultConnectionGene(key=(275, 10), weight=0.  
        7921844687319712, enabled=True)  
15173     DefaultConnectionGene(key=(275, 11), weight=0.  
        7539937537230221, enabled=True)  
15174     DefaultConnectionGene(key=(950, 2), weight=0.  
        2708475992441083, enabled=False)  
15175     DefaultConnectionGene(key=(1010, 275), weight=  
        1.5151303161289373, enabled=True)  
15176  
15177 Time Taken: 798946.9813599586  
15178 libpng warning: iCCP: known incorrect sRGB profile  
15179 libpng warning: iCCP: known incorrect sRGB profile  
15180 libpng warning: iCCP: known incorrect sRGB profile  
15181  
15182 Process finished with exit code 0  
15183
```