

```
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 = 638 Fitness
  = 311.5
7 Ai: 1 Gen: 1
8 Sim Starting
9 Sim over Total pop = 0 Tick Complete = 1265 Fitness
  = -15.799999999999933
10 Ai: 2 Gen: 1
11 Sim Starting
12 Sim over Total pop = 0 Tick Complete = 814 Fitness
  = 311.80000000000007
13 Ai: 3 Gen: 1
14 Sim Starting
15 Sim over Total pop = 0 Tick Complete = 924 Fitness
  = 286.5
16 Ai: 4 Gen: 1
17 Sim Starting
18 Sim over Total pop = 0 Tick Complete = 1353 Fitness
  = 603.7999999999997
19 Ai: 5 Gen: 1
20 Sim Starting
21 Sim over Total pop = 0 Tick Complete = 869 Fitness
  = 378.0500000000001
22 Ai: 6 Gen: 1
23 Sim Starting
24 Sim over Total pop = 0 Tick Complete = 1738 Fitness
  = 435.6000000000006
25 Ai: 7 Gen: 1
26 Sim Starting
27 Sim over Total pop = 0 Tick Complete = 858 Fitness
  = 132.6999999999999
28 Ai: 8 Gen: 1
29 Sim Starting
30 Sim over Total pop = 0 Tick Complete = 682 Fitness
  = 275.05
31 Ai: 9 Gen: 1
32 Sim Starting
```

```
33 Sim over Total pop = 0 Tick Complete = 671 Fitness
= 333.5
34 Ai: 10 Gen: 1
35 Sim Starting
36 Sim over Total pop = 0 Tick Complete = 572 Fitness
= 126.30000000000001
37 Ai: 11 Gen: 1
38 Sim Starting
39 Sim over Total pop = 0 Tick Complete = 770 Fitness
= 153.6999999999999
40 Ai: 12 Gen: 1
41 Sim Starting
42 Sim over Total pop = 0 Tick Complete = 1353 Fitness
= 413.0500000000001
43 Ai: 13 Gen: 1
44 Sim Starting
45 Sim over Total pop = 0 Tick Complete = 8921 Fitness
= 1109.600000000033
46 Ai: 14 Gen: 1
47 Sim Starting
48 Sim over Total pop = 0 Tick Complete = 638 Fitness
= 147.75
49 Ai: 15 Gen: 1
50 Sim Starting
51 Sim over Total pop = 0 Tick Complete = 3531 Fitness
= 444.25000000000085
52 Ai: 16 Gen: 1
53 Sim Starting
54 Sim over Total pop = 0 Tick Complete = 726 Fitness
= 190.30000000000013
55 Ai: 17 Gen: 1
56 Sim Starting
57 Sim over Total pop = 0 Tick Complete = 792 Fitness
= 275.849999999999
58 Ai: 18 Gen: 1
59 Sim Starting
60 Sim over Total pop = 0 Tick Complete = 616 Fitness
= 153.6000000000002
61 Ai: 19 Gen: 1
62 Sim Starting
63 Sim over Total pop = 0 Tick Complete = 7579 Fitness
= 651.8999999999928
64 Ai: 20 Gen: 1
65 Sim Starting
```

```
66 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = -72.80000000000001
67 Ai: 21 Gen: 1
68 Sim Starting
69 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = -116.0
70 Ai: 22 Gen: 1
71 Sim Starting
72 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 350.3999999999986
73 Ai: 23 Gen: 1
74 Sim Starting
75 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = 135.6000000000002
76 Ai: 24 Gen: 1
77 Sim Starting
78 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 251.0
79 Ai: 25 Gen: 1
80 Sim Starting
81 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 391.1999999999976
82 Ai: 26 Gen: 1
83 Sim Starting
84 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 311.5
85 Ai: 27 Gen: 1
86 Sim Starting
87 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 256.5500000000007
88 Ai: 28 Gen: 1
89 Sim Starting
90 Sim over Total pop = 0 Tick Complete = 869 Fitness
    = 140.0
91 Ai: 29 Gen: 1
92 Sim Starting
93 Sim over Total pop = 0 Tick Complete = 924 Fitness
    = 261.0
94 Ai: 30 Gen: 1
95 Sim Starting
96 Sim over Total pop = 0 Tick Complete = 4433
    Fitness = 197.00000000000085
97 Ai: 31 Gen: 1
98 Sim Starting
```

```
99 Sim over Total pop = 0 Tick Complete = 814 Fitness
    = 26.75
100 Ai: 32 Gen: 1
101 Sim Starting
102 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 433.65000000000003
103 Ai: 33 Gen: 1
104 Sim Starting
105 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 322.5
106 Ai: 34 Gen: 1
107 Sim Starting
108 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 29.39999999999885
109 Ai: 35 Gen: 1
110 Sim Starting
111 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 496.999999999993
112 Ai: 36 Gen: 1
113 Sim Starting
114 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 272.0
115 Ai: 37 Gen: 1
116 Sim Starting
117 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 287.95000000000084
118 Ai: 38 Gen: 1
119 Sim Starting
120 Sim over Total pop = 0 Tick Complete = 7018
    Fitness = 580.999999999983
121 Ai: 39 Gen: 1
122 Sim Starting
123 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 299.7000000000001
124 Ai: 40 Gen: 1
125 Sim Starting
126 Sim over Total pop = 0 Tick Complete = 704 Fitness
    = -59.0000000000003
127 Ai: 41 Gen: 1
128 Sim Starting
129 Sim over Total pop = 0 Tick Complete = 759 Fitness
    = 289.5
130 Ai: 42 Gen: 1
131 Sim Starting
```

```
132 Sim over Total pop = 0 Tick Complete = 5962
    Fitness = 227.14999999999853
133 Ai: 43 Gen: 1
134 Sim Starting
135 Sim over Total pop = 0 Tick Complete = 7447
    Fitness = 381.2
136 Ai: 44 Gen: 1
137 Sim Starting
138 Sim over Total pop = 0 Tick Complete = 924 Fitness
    = 165.4000000000003
139 Ai: 45 Gen: 1
140 Sim Starting
141 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 469.15000000000146
142 Ai: 46 Gen: 1
143 Sim Starting
144 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = 126.0
145 Ai: 47 Gen: 1
146 Sim Starting
147 Sim over Total pop = 0 Tick Complete = 2288
    Fitness = 481.8499999999991
148 Ai: 48 Gen: 1
149 Sim Starting
150 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 141.5
151 Ai: 49 Gen: 1
152 Sim Starting
153 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 284.0
154 Ai: 0 Gen: 2
155 Sim Starting
156 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 393.0
157 Ai: 1 Gen: 2
158 Sim Starting
159 Sim over Total pop = 0 Tick Complete = 847 Fitness
    = 131.4999999999977
160 Ai: 2 Gen: 2
161 Sim Starting
162 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = 235.75
163 Ai: 3 Gen: 2
164 Sim Starting
```

```
165 Sim over Total pop = 0 Tick Complete = 1617
  Fitness = 362.3000000000013
166 Ai: 4 Gen: 2
167 Sim Starting
168 Sim over Total pop = 0 Tick Complete = 2541
  Fitness = 731.1000000000014
169 Ai: 5 Gen: 2
170 Sim Starting
171 Sim over Total pop = 0 Tick Complete = 1540
  Fitness = 134.9500000000005
172 Ai: 6 Gen: 2
173 Sim Starting
174 Sim over Total pop = 0 Tick Complete = 2145
  Fitness = 662.6999999999969
175 Ai: 7 Gen: 2
176 Sim Starting
177 Sim over Total pop = 0 Tick Complete = 1375
  Fitness = 185.0
178 Ai: 8 Gen: 2
179 Sim Starting
180 Sim over Total pop = 0 Tick Complete = 1001
  Fitness = 354.0
181 Ai: 9 Gen: 2
182 Sim Starting
183 Sim over Total pop = 0 Tick Complete = 660 Fitness
  = 187.6500000000015
184 Ai: 10 Gen: 2
185 Sim Starting
186 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 284.0
187 Ai: 11 Gen: 2
188 Sim Starting
189 Sim over Total pop = 0 Tick Complete = 946 Fitness
  = 542.699999999998
190 Ai: 12 Gen: 2
191 Sim Starting
192 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 322.5
193 Ai: 13 Gen: 2
194 Sim Starting
195 Sim over Total pop = 0 Tick Complete = 2981
  Fitness = 416.550000000004
196 Ai: 14 Gen: 2
197 Sim Starting
```

```
198 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 273.5
199 Ai: 15 Gen: 2
200 Sim Starting
201 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 223.25
202 Ai: 16 Gen: 2
203 Sim Starting
204 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = -67.4
205 Ai: 17 Gen: 2
206 Sim Starting
207 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 135.64999999999978
208 Ai: 18 Gen: 2
209 Sim Starting
210 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 278.5
211 Ai: 19 Gen: 2
212 Sim Starting
213 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 284.0
214 Ai: 20 Gen: 2
215 Sim Starting
216 Sim over Total pop = 0 Tick Complete = 825 Fitness
    = 161.0
217 Ai: 21 Gen: 2
218 Sim Starting
219 Sim over Total pop = 0 Tick Complete = 836 Fitness
    = 192.65000000000055
220 Ai: 22 Gen: 2
221 Sim Starting
222 Sim over Total pop = 0 Tick Complete = 880 Fitness
    = 291.4
223 Ai: 23 Gen: 2
224 Sim Starting
225 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = 130.0
226 Ai: 24 Gen: 2
227 Sim Starting
228 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 278.5
229 Ai: 25 Gen: 2
230 Sim Starting
```

```
231 Sim over Total pop = 0 Tick Complete = 869 Fitness
    = 368.8499999999934
232 Ai: 26 Gen: 2
233 Sim Starting
234 Sim over Total pop = 0 Tick Complete = 726 Fitness
    = 238.400000000002
235 Ai: 27 Gen: 2
236 Sim Starting
237 Sim over Total pop = 0 Tick Complete = 902 Fitness
    = 216.0
238 Ai: 28 Gen: 2
239 Sim Starting
240 Sim over Total pop = 0 Tick Complete = 7161
    Fitness = 662.7000000000103
241 Ai: 29 Gen: 2
242 Sim Starting
243 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 403.0499999999654
244 Ai: 30 Gen: 2
245 Sim Starting
246 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 289.5
247 Ai: 31 Gen: 2
248 Sim Starting
249 Sim over Total pop = 0 Tick Complete = 561 Fitness
    = -161.6
250 Ai: 32 Gen: 2
251 Sim Starting
252 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 303.899999999995
253 Ai: 33 Gen: 2
254 Sim Starting
255 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 241.55
256 Ai: 34 Gen: 2
257 Sim Starting
258 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 680.000000000014
259 Ai: 35 Gen: 2
260 Sim Starting
261 Sim over Total pop = 0 Tick Complete = 11814
    Fitness = 652.3499999999867
262 Ai: 36 Gen: 2
263 Sim Starting
```

```
264 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 155.0
265 Ai: 37 Gen: 2
266 Sim Starting
267 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 340.35000000000025
268 Ai: 38 Gen: 2
269 Sim Starting
270 Sim over Total pop = 0 Tick Complete = 2739
    Fitness = 432.2000000000012
271 Ai: 39 Gen: 2
272 Sim Starting
273 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 288.6500000000006
274 Ai: 40 Gen: 2
275 Sim Starting
276 Sim over Total pop = 0 Tick Complete = 11275
    Fitness = 1027.199999999987
277 Ai: 41 Gen: 2
278 Sim Starting
279 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = 30.25
280 Ai: 42 Gen: 2
281 Sim Starting
282 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 167.9
283 Ai: 43 Gen: 2
284 Sim Starting
285 Sim over Total pop = 0 Tick Complete = 968 Fitness
    = 172.55
286 Ai: 44 Gen: 2
287 Sim Starting
288 Sim over Total pop = 0 Tick Complete = 715 Fitness
    = 326.8
289 Ai: 45 Gen: 2
290 Sim Starting
291 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 580.500000000003
292 Ai: 46 Gen: 2
293 Sim Starting
294 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 233.7499999999937
295 Ai: 47 Gen: 2
296 Sim Starting
```

```
297 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 369.4499999999995
298 Ai: 48 Gen: 2
299 Sim Starting
300 Sim over Total pop = 0 Tick Complete = 2970
    Fitness = 657.099999999952
301 Ai: 49 Gen: 2
302 Sim Starting
303 Sim over Total pop = 0 Tick Complete = 7139
    Fitness = 238.4999999999818
304 Ai: 50 Gen: 2
305 Sim Starting
306 Sim over Total pop = 0 Tick Complete = 781 Fitness
    = 300.15000000000003
307 Ai: 51 Gen: 2
308 Sim Starting
309 Sim over Total pop = 0 Tick Complete = 4268
    Fitness = 329.7499999999997
310 Ai: 0 Gen: 3
311 Sim Starting
312 Sim over Total pop = 0 Tick Complete = 979 Fitness
    = 497.2999999999916
313 Ai: 1 Gen: 3
314 Sim Starting
315 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = -41.75
316 Ai: 2 Gen: 3
317 Sim Starting
318 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = -52.2000000000004
319 Ai: 3 Gen: 3
320 Sim Starting
321 Sim over Total pop = 0 Tick Complete = 792 Fitness
    = 235.8999999999998
322 Ai: 4 Gen: 3
323 Sim Starting
324 Sim over Total pop = 0 Tick Complete = 4455
    Fitness = 468.7500000000004
325 Ai: 5 Gen: 3
326 Sim Starting
327 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 90.25
328 Ai: 6 Gen: 3
329 Sim Starting
```

```
330 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 223.5
331 Ai: 7 Gen: 3
332 Sim Starting
333 Sim over Total pop = 0 Tick Complete = 792 Fitness
    = 486.84999999999934
334 Ai: 8 Gen: 3
335 Sim Starting
336 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 284.0
337 Ai: 9 Gen: 3
338 Sim Starting
339 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 317.0
340 Ai: 10 Gen: 3
341 Sim Starting
342 Sim over Total pop = 0 Tick Complete = 4422
    Fitness = 464.29999999999757
343 Ai: 11 Gen: 3
344 Sim Starting
345 Sim over Total pop = 0 Tick Complete = 935 Fitness
    = 290.0
346 Ai: 12 Gen: 3
347 Sim Starting
348 Sim over Total pop = 0 Tick Complete = 759 Fitness
    = 252.0999999999997
349 Ai: 13 Gen: 3
350 Sim Starting
351 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 313.4
352 Ai: 14 Gen: 3
353 Sim Starting
354 Sim over Total pop = 0 Tick Complete = 880 Fitness
    = 365.7499999999943
355 Ai: 15 Gen: 3
356 Sim Starting
357 Sim over Total pop = 0 Tick Complete = 704 Fitness
    = 316.5
358 Ai: 16 Gen: 3
359 Sim Starting
360 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 399.8000000000018
361 Ai: 17 Gen: 3
362 Sim Starting
```

```
363 Sim over Total pop = 0 Tick Complete = 3300
    Fitness = 528.2999999999993
364 Ai: 18 Gen: 3
365 Sim Starting
366 Sim over Total pop = 0 Tick Complete = 858 Fitness
    = 143.0
367 Ai: 19 Gen: 3
368 Sim Starting
369 Sim over Total pop = 0 Tick Complete = 27467
    Fitness = 1709.699999999139
370 Ai: 20 Gen: 3
371 Sim Starting
372 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 500.800000000004
373 Ai: 21 Gen: 3
374 Sim Starting
375 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 696.600000000007
376 Ai: 22 Gen: 3
377 Sim Starting
378 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 295.0
379 Ai: 23 Gen: 3
380 Sim Starting
381 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 473.750000000008
382 Ai: 24 Gen: 3
383 Sim Starting
384 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 317.0
385 Ai: 25 Gen: 3
386 Sim Starting
387 Sim over Total pop = 0 Tick Complete = 7007
    Fitness = 735.5
388 Ai: 26 Gen: 3
389 Sim Starting
390 Sim over Total pop = 0 Tick Complete = 3652
    Fitness = 294.650000000011
391 Ai: 27 Gen: 3
392 Sim Starting
393 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 592.099999999984
394 Ai: 28 Gen: 3
395 Sim Starting
```

```
396 Sim over Total pop = 0 Tick Complete = 4642
    Fitness = 204.54999999999916
397 Ai: 29 Gen: 3
398 Sim Starting
399 Sim over Total pop = 0 Tick Complete = 18678
    Fitness = 897.5000000000235
400 Ai: 30 Gen: 3
401 Sim Starting
402 Sim over Total pop = 0 Tick Complete = 3454
    Fitness = 358.7499999999977
403 Ai: 31 Gen: 3
404 Sim Starting
405 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 663.000000000003
406 Ai: 32 Gen: 3
407 Sim Starting
408 Sim over Total pop = 0 Tick Complete = 4136
    Fitness = 776.2499999999865
409 Ai: 33 Gen: 3
410 Sim Starting
411 Sim over Total pop = 0 Tick Complete = 2695
    Fitness = 712.900000000021
412 Ai: 34 Gen: 3
413 Sim Starting
414 Sim over Total pop = 0 Tick Complete = 4114
    Fitness = 280.8499999999984
415 Ai: 35 Gen: 3
416 Sim Starting
417 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 353.800000000005
418 Ai: 36 Gen: 3
419 Sim Starting
420 Sim over Total pop = 0 Tick Complete = 4972
    Fitness = 843.600000000087
421 Ai: 37 Gen: 3
422 Sim Starting
423 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = 25.25
424 Ai: 38 Gen: 3
425 Sim Starting
426 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 171.0
427 Ai: 39 Gen: 3
428 Sim Starting
```

```
429 Sim over Total pop = 0 Tick Complete = 836 Fitness
    = 230.45000000000005
430 Ai: 40 Gen: 3
431 Sim Starting
432 Sim over Total pop = 0 Tick Complete = 605 Fitness
    = 148.5
433 Ai: 41 Gen: 3
434 Sim Starting
435 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 243.3499999999923
436 Ai: 42 Gen: 3
437 Sim Starting
438 Sim over Total pop = 0 Tick Complete = 869 Fitness
    = 366.5000000000057
439 Ai: 43 Gen: 3
440 Sim Starting
441 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 756.899999999974
442 Ai: 44 Gen: 3
443 Sim Starting
444 Sim over Total pop = 0 Tick Complete = 11154
    Fitness = 418.1000000000457
445 Ai: 45 Gen: 3
446 Sim Starting
447 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 350.0
448 Ai: 46 Gen: 3
449 Sim Starting
450 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 542.2000000000007
451 Ai: 47 Gen: 3
452 Sim Starting
453 Sim over Total pop = 0 Tick Complete = 2057
    Fitness = 280.1999999999993
454 Ai: 48 Gen: 3
455 Sim Starting
456 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 350.0
457 Ai: 49 Gen: 3
458 Sim Starting
459 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 476.899999999969
460 Ai: 0 Gen: 4
461 Sim Starting
```

```
462 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 311.05
463 Ai: 1 Gen: 4
464 Sim Starting
465 Sim over Total pop = 0 Tick Complete = 880 Fitness
    = 305.7999999999997
466 Ai: 2 Gen: 4
467 Sim Starting
468 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 278.5
469 Ai: 3 Gen: 4
470 Sim Starting
471 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = 354.5
472 Ai: 4 Gen: 4
473 Sim Starting
474 Sim over Total pop = 0 Tick Complete = 935 Fitness
    = -143.95
475 Ai: 5 Gen: 4
476 Sim Starting
477 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 328.0999999999985
478 Ai: 6 Gen: 4
479 Sim Starting
480 Sim over Total pop = 0 Tick Complete = 6666
    Fitness = 961.499999999988
481 Ai: 7 Gen: 4
482 Sim Starting
483 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 498.6000000000014
484 Ai: 8 Gen: 4
485 Sim Starting
486 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 256.5
487 Ai: 9 Gen: 4
488 Sim Starting
489 Sim over Total pop = 0 Tick Complete = 781 Fitness
    = 239.5
490 Ai: 10 Gen: 4
491 Sim Starting
492 Sim over Total pop = 0 Tick Complete = 605 Fitness
    = 163.0
493 Ai: 11 Gen: 4
494 Sim Starting
```

```
495 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 454.0
496 Ai: 12 Gen: 4
497 Sim Starting
498 Sim over Total pop = 0 Tick Complete = 3586
    Fitness = 270.8499999999866
499 Ai: 13 Gen: 4
500 Sim Starting
501 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = 289.8000000000007
502 Ai: 14 Gen: 4
503 Sim Starting
504 Sim over Total pop = 0 Tick Complete = 6094
    Fitness = 409.1000000000001
505 Ai: 15 Gen: 4
506 Sim Starting
507 Sim over Total pop = 0 Tick Complete = 836 Fitness
    = 191.2500000000017
508 Ai: 16 Gen: 4
509 Sim Starting
510 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = -179.5499999999998
511 Ai: 17 Gen: 4
512 Sim Starting
513 Sim over Total pop = 0 Tick Complete = 583 Fitness
    = 129.2999999999993
514 Ai: 18 Gen: 4
515 Sim Starting
516 Sim over Total pop = 0 Tick Complete = 2629
    Fitness = 448.5000000000404
517 Ai: 19 Gen: 4
518 Sim Starting
519 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 388.7000000000002
520 Ai: 20 Gen: 4
521 Sim Starting
522 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 284.0
523 Ai: 21 Gen: 4
524 Sim Starting
525 Sim over Total pop = 0 Tick Complete = 5654
    Fitness = 446.1499999999969
526 Ai: 22 Gen: 4
527 Sim Starting
```

```
528 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 402.1499999999993
529 Ai: 23 Gen: 4
530 Sim Starting
531 Sim over Total pop = 0 Tick Complete = 561 Fitness
    = -134.0
532 Ai: 24 Gen: 4
533 Sim Starting
534 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 311.5
535 Ai: 25 Gen: 4
536 Sim Starting
537 Sim over Total pop = 0 Tick Complete = 968 Fitness
    = 169.6499999999986
538 Ai: 26 Gen: 4
539 Sim Starting
540 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 517.950000000002
541 Ai: 27 Gen: 4
542 Sim Starting
543 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = -34.95
544 Ai: 28 Gen: 4
545 Sim Starting
546 Sim over Total pop = 0 Tick Complete = 528 Fitness
    = -197.75
547 Ai: 29 Gen: 4
548 Sim Starting
549 Sim over Total pop = 0 Tick Complete = 2398
    Fitness = -29.3000000000001
550 Ai: 30 Gen: 4
551 Sim Starting
552 Sim over Total pop = 0 Tick Complete = 4741
    Fitness = 1029.900000000013
553 Ai: 31 Gen: 4
554 Sim Starting
555 Sim over Total pop = 0 Tick Complete = 759 Fitness
    = 205.25
556 Ai: 32 Gen: 4
557 Sim Starting
558 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 240.5
559 Ai: 33 Gen: 4
560 Sim Starting
```

```
561 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 519.7500000000023
562 Ai: 34 Gen: 4
563 Sim Starting
564 Sim over Total pop = 0 Tick Complete = 726 Fitness
    = 265.75
565 Ai: 35 Gen: 4
566 Sim Starting
567 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 256.5
568 Ai: 36 Gen: 4
569 Sim Starting
570 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 8.49999999999982
571 Ai: 37 Gen: 4
572 Sim Starting
573 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 24.29999999999926
574 Ai: 38 Gen: 4
575 Sim Starting
576 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 435.799999999999
577 Ai: 39 Gen: 4
578 Sim Starting
579 Sim over Total pop = 0 Tick Complete = 770 Fitness
    = -109.6000000000002
580 Ai: 40 Gen: 4
581 Sim Starting
582 Sim over Total pop = 0 Tick Complete = 748 Fitness
    = -133.2
583 Ai: 41 Gen: 4
584 Sim Starting
585 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 252.449999999989
586 Ai: 42 Gen: 4
587 Sim Starting
588 Sim over Total pop = 0 Tick Complete = 4994
    Fitness = 493.1000000000684
589 Ai: 43 Gen: 4
590 Sim Starting
591 Sim over Total pop = 0 Tick Complete = 9361
    Fitness = 632.749999999993
592 Ai: 44 Gen: 4
593 Sim Starting
```

```
594 Sim over Total pop = 0 Tick Complete = 8954
  Fitness = 952.9000000000045
595 Ai: 45 Gen: 4
596 Sim Starting
597 Sim over Total pop = 0 Tick Complete = 6754
  Fitness = 1075.1500000000028
598 Ai: 46 Gen: 4
599 Sim Starting
600 Sim over Total pop = 0 Tick Complete = 1463
  Fitness = 325.2
601 Ai: 47 Gen: 4
602 Sim Starting
603 Sim over Total pop = 0 Tick Complete = 814 Fitness
  = 285.449999999999
604 Ai: 48 Gen: 4
605 Sim Starting
606 Sim over Total pop = 0 Tick Complete = 7128
  Fitness = 564.400000000011
607 Ai: 0 Gen: 5
608 Sim Starting
609 Sim over Total pop = 0 Tick Complete = 803 Fitness
  = -140.4500000000005
610 Ai: 1 Gen: 5
611 Sim Starting
612 Sim over Total pop = 0 Tick Complete = 880 Fitness
  = -9.8499999999994
613 Ai: 2 Gen: 5
614 Sim Starting
615 Sim over Total pop = 0 Tick Complete = 825 Fitness
  = 351.549999999995
616 Ai: 3 Gen: 5
617 Sim Starting
618 Sim over Total pop = 0 Tick Complete = 1254
  Fitness = 432.8000000000024
619 Ai: 4 Gen: 5
620 Sim Starting
621 Sim over Total pop = 0 Tick Complete = 1133
  Fitness = 239.3500000000036
622 Ai: 5 Gen: 5
623 Sim Starting
624 Sim over Total pop = 0 Tick Complete = 1210
  Fitness = 150.0
625 Ai: 6 Gen: 5
626 Sim Starting
```

```
627 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 538.1500000000019
628 Ai: 7 Gen: 5
629 Sim Starting
630 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 230.7999999999991
631 Ai: 8 Gen: 5
632 Sim Starting
633 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 196.0
634 Ai: 9 Gen: 5
635 Sim Starting
636 Sim over Total pop = 0 Tick Complete = 781 Fitness
    = 330.1500000000001
637 Ai: 10 Gen: 5
638 Sim Starting
639 Sim over Total pop = 0 Tick Complete = 715 Fitness
    = 153.549999999999
640 Ai: 11 Gen: 5
641 Sim Starting
642 Sim over Total pop = 0 Tick Complete = 8800
    Fitness = 590.8499999999884
643 Ai: 12 Gen: 5
644 Sim Starting
645 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = -113.2999999999998
646 Ai: 13 Gen: 5
647 Sim Starting
648 Sim over Total pop = 0 Tick Complete = 682 Fitness
    = 171.6499999999998
649 Ai: 14 Gen: 5
650 Sim Starting
651 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 330.6000000000036
652 Ai: 15 Gen: 5
653 Sim Starting
654 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 190.5
655 Ai: 16 Gen: 5
656 Sim Starting
657 Sim over Total pop = 0 Tick Complete = 572 Fitness
    = -36.3499999999994
658 Ai: 17 Gen: 5
659 Sim Starting
```

```
660 Sim over Total pop = 0 Tick Complete = 550 Fitness
    = 70.0
661 Ai: 18 Gen: 5
662 Sim Starting
663 Sim over Total pop = 0 Tick Complete = 22935
    Fitness = 2061.8000000001384
664 Ai: 19 Gen: 5
665 Sim Starting
666 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 224.2000000000005
667 Ai: 20 Gen: 5
668 Sim Starting
669 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 275.1500000000003
670 Ai: 21 Gen: 5
671 Sim Starting
672 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 209.0
673 Ai: 22 Gen: 5
674 Sim Starting
675 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 499.099999999999
676 Ai: 23 Gen: 5
677 Sim Starting
678 Sim over Total pop = 0 Tick Complete = 7436
    Fitness = 489.2499999999916
679 Ai: 24 Gen: 5
680 Sim Starting
681 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 188.8999999999998
682 Ai: 25 Gen: 5
683 Sim Starting
684 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 340.7
685 Ai: 26 Gen: 5
686 Sim Starting
687 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 328.0
688 Ai: 27 Gen: 5
689 Sim Starting
690 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 687.5500000000003
691 Ai: 28 Gen: 5
692 Sim Starting
```

```
693 Sim over Total pop = 0 Tick Complete = 858 Fitness
    = 26.200000000000074
694 Ai: 29 Gen: 5
695 Sim Starting
696 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 196.00000000000043
697 Ai: 30 Gen: 5
698 Sim Starting
699 Sim over Total pop = 0 Tick Complete = 759 Fitness
    = 194.25
700 Ai: 31 Gen: 5
701 Sim Starting
702 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 294.50000000000205
703 Ai: 32 Gen: 5
704 Sim Starting
705 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = 267.79999999999967
706 Ai: 33 Gen: 5
707 Sim Starting
708 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 605.899999999998
709 Ai: 34 Gen: 5
710 Sim Starting
711 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 475.8999999999986
712 Ai: 35 Gen: 5
713 Sim Starting
714 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 483.80000000000166
715 Ai: 36 Gen: 5
716 Sim Starting
717 Sim over Total pop = 0 Tick Complete = 594 Fitness
    = 242.0
718 Ai: 37 Gen: 5
719 Sim Starting
720 Sim over Total pop = 0 Tick Complete = 20119
    Fitness = 1063.5
721 Ai: 38 Gen: 5
722 Sim Starting
723 Sim over Total pop = 0 Tick Complete = 3520
    Fitness = 158.00000000000006
724 Ai: 39 Gen: 5
725 Sim Starting
```

```
726 Sim over Total pop = 0 Tick Complete = 3982
    Fitness = 243.94999999999897
727 Ai: 40 Gen: 5
728 Sim Starting
729 Sim over Total pop = 0 Tick Complete = 649 Fitness
    = 218.5
730 Ai: 41 Gen: 5
731 Sim Starting
732 Sim over Total pop = 0 Tick Complete = 1793
    Fitness = 542.6999999999981
733 Ai: 42 Gen: 5
734 Sim Starting
735 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 295.0
736 Ai: 43 Gen: 5
737 Sim Starting
738 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 677.5000000000001
739 Ai: 44 Gen: 5
740 Sim Starting
741 Sim over Total pop = 0 Tick Complete = 572 Fitness
    = -149.0
742 Ai: 45 Gen: 5
743 Sim Starting
744 Sim over Total pop = 0 Tick Complete = 2607
    Fitness = -7.2499999999994
745 Ai: 46 Gen: 5
746 Sim Starting
747 Sim over Total pop = 0 Tick Complete = 847 Fitness
    = -119.25
748 Ai: 47 Gen: 5
749 Sim Starting
750 Sim over Total pop = 0 Tick Complete = 12166
    Fitness = 1230.999999999995
751 Ai: 48 Gen: 5
752 Sim Starting
753 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = -129.6499999999972
754 Ai: 49 Gen: 5
755 Sim Starting
756 Sim over Total pop = 0 Tick Complete = 924 Fitness
    = 271.699999999999
757 Ai: 50 Gen: 5
758 Sim Starting
```

```
759 Sim over Total pop = 0 Tick Complete = 957 Fitness
    = 311.7499999999983
760 Ai: 0 Gen: 6
761 Sim Starting
762 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 124.1000000000008
763 Ai: 1 Gen: 6
764 Sim Starting
765 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = -46.8999999999999
766 Ai: 2 Gen: 6
767 Sim Starting
768 Sim over Total pop = 0 Tick Complete = 3982
    Fitness = 322.2999999999643
769 Ai: 3 Gen: 6
770 Sim Starting
771 Sim over Total pop = 0 Tick Complete = 836 Fitness
    = 319.800000000002
772 Ai: 4 Gen: 6
773 Sim Starting
774 Sim over Total pop = 0 Tick Complete = 660 Fitness
    = 296.0
775 Ai: 5 Gen: 6
776 Sim Starting
777 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 295.0
778 Ai: 6 Gen: 6
779 Sim Starting
780 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 193.399999999998
781 Ai: 7 Gen: 6
782 Sim Starting
783 Sim over Total pop = 0 Tick Complete = 3993
    Fitness = 84.200000000019
784 Ai: 8 Gen: 6
785 Sim Starting
786 Sim over Total pop = 0 Tick Complete = 4862
    Fitness = 816.6000000000128
787 Ai: 9 Gen: 6
788 Sim Starting
789 Sim over Total pop = 0 Tick Complete = 3443
    Fitness = 146.5000000000054
790 Ai: 10 Gen: 6
791 Sim Starting
```

```
792 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 334.35
793 Ai: 11 Gen: 6
794 Sim Starting
795 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 605.65
796 Ai: 12 Gen: 6
797 Sim Starting
798 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 269.90000000000066
799 Ai: 13 Gen: 6
800 Sim Starting
801 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 541.749999999994
802 Ai: 14 Gen: 6
803 Sim Starting
804 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 588.449999999983
805 Ai: 15 Gen: 6
806 Sim Starting
807 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 237.049999999995
808 Ai: 16 Gen: 6
809 Sim Starting
810 Sim over Total pop = 0 Tick Complete = 5203
    Fitness = 365.300000000025
811 Ai: 17 Gen: 6
812 Sim Starting
813 Sim over Total pop = 0 Tick Complete = 1980
    Fitness = 673.899999999999
814 Ai: 18 Gen: 6
815 Sim Starting
816 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 619.949999999988
817 Ai: 19 Gen: 6
818 Sim Starting
819 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 333.9000000000015
820 Ai: 20 Gen: 6
821 Sim Starting
822 Sim over Total pop = 0 Tick Complete = 737 Fitness
    = 160.0
823 Ai: 21 Gen: 6
824 Sim Starting
```

```
825 Sim over Total pop = 0 Tick Complete = 715 Fitness
    = 278.75
826 Ai: 22 Gen: 6
827 Sim Starting
828 Sim over Total pop = 0 Tick Complete = 35717
    Fitness = 1784.7499999999086
829 Ai: 23 Gen: 6
830 Sim Starting
831 Sim over Total pop = 0 Tick Complete = 1848
    Fitness = 154.6000000000001
832 Ai: 24 Gen: 6
833 Sim Starting
834 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 211.9000000000005
835 Ai: 25 Gen: 6
836 Sim Starting
837 Sim over Total pop = 0 Tick Complete = 803 Fitness
    = 113.55000000000018
838 Ai: 26 Gen: 6
839 Sim Starting
840 Sim over Total pop = 0 Tick Complete = 957 Fitness
    = 412.8000000000002
841 Ai: 27 Gen: 6
842 Sim Starting
843 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 196.0
844 Ai: 28 Gen: 6
845 Sim Starting
846 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 23.24999999999886
847 Ai: 29 Gen: 6
848 Sim Starting
849 Sim over Total pop = 0 Tick Complete = 7249
    Fitness = 422.0000000000057
850 Ai: 30 Gen: 6
851 Sim Starting
852 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 453.4499999999965
853 Ai: 31 Gen: 6
854 Sim Starting
855 Sim over Total pop = 0 Tick Complete = 638 Fitness
    = 306.0
856 Ai: 32 Gen: 6
857 Sim Starting
```

```
858 Sim over Total pop = 0 Tick Complete = 1012
  Fitness = 155.29999999999998
859 Ai: 33 Gen: 6
860 Sim Starting
861 Sim over Total pop = 0 Tick Complete = 2167
  Fitness = 312.5000000000006
862 Ai: 34 Gen: 6
863 Sim Starting
864 Sim over Total pop = 0 Tick Complete = 935 Fitness
  = 226.8999999999992
865 Ai: 35 Gen: 6
866 Sim Starting
867 Sim over Total pop = 0 Tick Complete = 2937
  Fitness = 607.049999999989
868 Ai: 36 Gen: 6
869 Sim Starting
870 Sim over Total pop = 0 Tick Complete = 1034
  Fitness = 310.9
871 Ai: 37 Gen: 6
872 Sim Starting
873 Sim over Total pop = 0 Tick Complete = 1353
  Fitness = 208.149999999996
874 Ai: 38 Gen: 6
875 Sim Starting
876 Sim over Total pop = 0 Tick Complete = 902 Fitness
  = 356.9500000000005
877 Ai: 39 Gen: 6
878 Sim Starting
879 Sim over Total pop = 0 Tick Complete = 1749
  Fitness = 348.7000000000067
880 Ai: 40 Gen: 6
881 Sim Starting
882 Sim over Total pop = 0 Tick Complete = 10175
  Fitness = 780.55
883 Ai: 41 Gen: 6
884 Sim Starting
885 Sim over Total pop = 0 Tick Complete = 2684
  Fitness = 355.8500000000021
886 Ai: 42 Gen: 6
887 Sim Starting
888 Sim over Total pop = 0 Tick Complete = 2904
  Fitness = 400.7999999999956
889 Ai: 43 Gen: 6
890 Sim Starting
```

```
891 Sim over Total pop = 0 Tick Complete = 20262
  Fitness = 1125.3500000000009
892 Ai: 44 Gen: 6
893 Sim Starting
894 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 295.0
895 Ai: 45 Gen: 6
896 Sim Starting
897 Sim over Total pop = 0 Tick Complete = 10010
  Fitness = 830.5500000000123
898 Ai: 46 Gen: 6
899 Sim Starting
900 Sim over Total pop = 0 Tick Complete = 572 Fitness
  = 130.0
901 Ai: 47 Gen: 6
902 Sim Starting
903 Sim over Total pop = 0 Tick Complete = 1067
  Fitness = 347.3000000000001
904 Ai: 48 Gen: 6
905 Sim Starting
906 Sim over Total pop = 0 Tick Complete = 935 Fitness
  = 201.0
907 Ai: 49 Gen: 6
908 Sim Starting
909 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 289.5
910 Ai: 50 Gen: 6
911 Sim Starting
912 Sim over Total pop = 0 Tick Complete = 2596
  Fitness = 373.5
913 Ai: 0 Gen: 7
914 Sim Starting
915 Sim over Total pop = 0 Tick Complete = 1507
  Fitness = 376.0499999999997
916 Ai: 1 Gen: 7
917 Sim Starting
918 Sim over Total pop = 0 Tick Complete = 4873
  Fitness = 168.95
919 Ai: 2 Gen: 7
920 Sim Starting
921 Sim over Total pop = 0 Tick Complete = 6600
  Fitness = 825.949999999988
922 Ai: 3 Gen: 7
923 Sim Starting
```

```
924 Sim over Total pop = 0 Tick Complete = 1144
  Fitness = 321.0
925 Ai: 4 Gen: 7
926 Sim Starting
927 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 262.0
928 Ai: 5 Gen: 7
929 Sim Starting
930 Sim over Total pop = 0 Tick Complete = 1331
  Fitness = 59.949999999999946
931 Ai: 6 Gen: 7
932 Sim Starting
933 Sim over Total pop = 0 Tick Complete = 715 Fitness
  = 112.5
934 Ai: 7 Gen: 7
935 Sim Starting
936 Sim over Total pop = 0 Tick Complete = 1782
  Fitness = 448.75
937 Ai: 8 Gen: 7
938 Sim Starting
939 Sim over Total pop = 0 Tick Complete = 4323
  Fitness = 506.5
940 Ai: 9 Gen: 7
941 Sim Starting
942 Sim over Total pop = 0 Tick Complete = 1474
  Fitness = 716.6500000000035
943 Ai: 10 Gen: 7
944 Sim Starting
945 Sim over Total pop = 0 Tick Complete = 5335
  Fitness = 464.75000000000216
946 Ai: 11 Gen: 7
947 Sim Starting
948 Sim over Total pop = 0 Tick Complete = 946 Fitness
  = 194.0000000000006
949 Ai: 12 Gen: 7
950 Sim Starting
951 Sim over Total pop = 0 Tick Complete = 638 Fitness
  = 256.5
952 Ai: 13 Gen: 7
953 Sim Starting
954 Sim over Total pop = 0 Tick Complete = 1562
  Fitness = 478.30000000000007
955 Ai: 14 Gen: 7
956 Sim Starting
```

```
957 Sim over Total pop = 0 Tick Complete = 8272
  Fitness = 404.00000000000466
958 Ai: 15 Gen: 7
959 Sim Starting
960 Sim over Total pop = 0 Tick Complete = 638
  Fitness = 256.5
961 Ai: 16 Gen: 7
962 Sim Starting
963 Sim over Total pop = 0 Tick Complete = 4180
  Fitness = 720.649999999996
964 Ai: 17 Gen: 7
965 Sim Starting
966 Sim over Total pop = 0 Tick Complete = 1364
  Fitness = 560.1500000000013
967 Ai: 18 Gen: 7
968 Sim Starting
969 Sim over Total pop = 0 Tick Complete = 660
  Fitness = 263.0
970 Ai: 19 Gen: 7
971 Sim Starting
972 Sim over Total pop = 0 Tick Complete = 627
  Fitness = 255.1999999999993
973 Ai: 20 Gen: 7
974 Sim Starting
975 Sim over Total pop = 0 Tick Complete = 748
  Fitness = 271.5
976 Ai: 21 Gen: 7
977 Sim Starting
978 Sim over Total pop = 0 Tick Complete = 2145
  Fitness = 904.3499999999988
979 Ai: 22 Gen: 7
980 Sim Starting
981 Sim over Total pop = 0 Tick Complete = 649
  Fitness = 137.5
982 Ai: 23 Gen: 7
983 Sim Starting
984 Sim over Total pop = 0 Tick Complete = 2068
  Fitness = 528.400000000001
985 Ai: 24 Gen: 7
986 Sim Starting
987 Sim over Total pop = 0 Tick Complete = 1584
  Fitness = 365.9
988 Ai: 25 Gen: 7
989 Sim Starting
```

```
990 Sim over Total pop = 0 Tick Complete = 2662
    Fitness = 528.35000000000039
991 Ai: 26 Gen: 7
992 Sim Starting
993 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 618.7000000000004
994 Ai: 27 Gen: 7
995 Sim Starting
996 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 324.5
997 Ai: 28 Gen: 7
998 Sim Starting
999 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 269.5
1000 Ai: 29 Gen: 7
1001 Sim Starting
1002 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 282.0
1003 Ai: 30 Gen: 7
1004 Sim Starting
1005 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 286.5
1006 Ai: 31 Gen: 7
1007 Sim Starting
1008 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 35.5500000000000075
1009 Ai: 32 Gen: 7
1010 Sim Starting
1011 Sim over Total pop = 0 Tick Complete = 1793
    Fitness = 59.34999999999995
1012 Ai: 33 Gen: 7
1013 Sim Starting
1014 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 198.50000000000028
1015 Ai: 34 Gen: 7
1016 Sim Starting
1017 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 722.9
1018 Ai: 35 Gen: 7
1019 Sim Starting
1020 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 358.7499999999987
1021 Ai: 36 Gen: 7
1022 Sim Starting
```

```
1023 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 593.5500000000001
1024 Ai: 37 Gen: 7
1025 Sim Starting
1026 Sim over Total pop = 0 Tick Complete = 2508
    Fitness = 226.0
1027 Ai: 38 Gen: 7
1028 Sim Starting
1029 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 73.0
1030 Ai: 39 Gen: 7
1031 Sim Starting
1032 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 268.299999999997
1033 Ai: 40 Gen: 7
1034 Sim Starting
1035 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 410.500000000001
1036 Ai: 41 Gen: 7
1037 Sim Starting
1038 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -197.55
1039 Ai: 42 Gen: 7
1040 Sim Starting
1041 Sim over Total pop = 0 Tick Complete = 1815
    Fitness = -39.99999999999844
1042 Ai: 43 Gen: 7
1043 Sim Starting
1044 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 313.9000000000003
1045 Ai: 44 Gen: 7
1046 Sim Starting
1047 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 418.0
1048 Ai: 45 Gen: 7
1049 Sim Starting
1050 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 444.8000000000075
1051 Ai: 46 Gen: 7
1052 Sim Starting
1053 Sim over Total pop = 0 Tick Complete = 2618
    Fitness = 129.4
1054 Ai: 47 Gen: 7
1055 Sim Starting
```

```
1056 Sim over Total pop = 0 Tick Complete = 4785
    Fitness = 459.80000000000456
1057 Ai: 48 Gen: 7
1058 Sim Starting
1059 Sim over Total pop = 0 Tick Complete = 6655
    Fitness = 573.0000000000125
1060 Ai: 49 Gen: 7
1061 Sim Starting
1062 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 316.5
1063 Ai: 0 Gen: 8
1064 Sim Starting
1065 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 276.25
1066 Ai: 1 Gen: 8
1067 Sim Starting
1068 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 187.69999999999965
1069 Ai: 2 Gen: 8
1070 Sim Starting
1071 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -125.64999999999996
1072 Ai: 3 Gen: 8
1073 Sim Starting
1074 Sim over Total pop = 0 Tick Complete = 792
    Fitness = -65.9
1075 Ai: 4 Gen: 8
1076 Sim Starting
1077 Sim over Total pop = 0 Tick Complete = 759
    Fitness = -181.9000000000003
1078 Ai: 5 Gen: 8
1079 Sim Starting
1080 Sim over Total pop = 0 Tick Complete = 3938
    Fitness = 268.4
1081 Ai: 6 Gen: 8
1082 Sim Starting
1083 Sim over Total pop = 0 Tick Complete = 5599
    Fitness = 907.8500000000001
1084 Ai: 7 Gen: 8
1085 Sim Starting
1086 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 189.0
1087 Ai: 8 Gen: 8
1088 Sim Starting
```

```
1089 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 333.15
1090 Ai: 9 Gen: 8
1091 Sim Starting
1092 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 432.1000000000014
1093 Ai: 10 Gen: 8
1094 Sim Starting
1095 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 320.0
1096 Ai: 11 Gen: 8
1097 Sim Starting
1098 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 260.95
1099 Ai: 12 Gen: 8
1100 Sim Starting
1101 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 289.0
1102 Ai: 13 Gen: 8
1103 Sim Starting
1104 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 307.6499999999947
1105 Ai: 14 Gen: 8
1106 Sim Starting
1107 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 659.0
1108 Ai: 15 Gen: 8
1109 Sim Starting
1110 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
1111 Ai: 16 Gen: 8
1112 Sim Starting
1113 Sim over Total pop = 0 Tick Complete = 1826
    Fitness = 408.4500000000005
1114 Ai: 17 Gen: 8
1115 Sim Starting
1116 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 474.199999999999
1117 Ai: 18 Gen: 8
1118 Sim Starting
1119 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1120 Ai: 19 Gen: 8
1121 Sim Starting
```

```
1122 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -163.5
1123 Ai: 20 Gen: 8
1124 Sim Starting
1125 Sim over Total pop = 0 Tick Complete = 4477
    Fitness = 233.1000000000133
1126 Ai: 21 Gen: 8
1127 Sim Starting
1128 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
1129 Ai: 22 Gen: 8
1130 Sim Starting
1131 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 360.8500000000036
1132 Ai: 23 Gen: 8
1133 Sim Starting
1134 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 79.8999999999998
1135 Ai: 24 Gen: 8
1136 Sim Starting
1137 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 323.5999999999999
1138 Ai: 25 Gen: 8
1139 Sim Starting
1140 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 302.8499999999996
1141 Ai: 26 Gen: 8
1142 Sim Starting
1143 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 156.9499999999985
1144 Ai: 27 Gen: 8
1145 Sim Starting
1146 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 301.3999999999964
1147 Ai: 28 Gen: 8
1148 Sim Starting
1149 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 351.6000000000005
1150 Ai: 29 Gen: 8
1151 Sim Starting
1152 Sim over Total pop = 0 Tick Complete = 24761
    Fitness = 1358.9999999999732
1153 Ai: 30 Gen: 8
1154 Sim Starting
```

```
1155 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 294.39999999999986
1156 Ai: 31 Gen: 8
1157 Sim Starting
1158 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 399.94999999999703
1159 Ai: 32 Gen: 8
1160 Sim Starting
1161 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 285.05
1162 Ai: 33 Gen: 8
1163 Sim Starting
1164 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 145.25
1165 Ai: 34 Gen: 8
1166 Sim Starting
1167 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 969.75
1168 Ai: 35 Gen: 8
1169 Sim Starting
1170 Sim over Total pop = 0 Tick Complete = 550
    Fitness = 70.0
1171 Ai: 36 Gen: 8
1172 Sim Starting
1173 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 207.60000000000002
1174 Ai: 37 Gen: 8
1175 Sim Starting
1176 Sim over Total pop = 0 Tick Complete = 2937
    Fitness = 494.30000000000007
1177 Ai: 38 Gen: 8
1178 Sim Starting
1179 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 256.600000000011
1180 Ai: 39 Gen: 8
1181 Sim Starting
1182 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 188.0
1183 Ai: 40 Gen: 8
1184 Sim Starting
1185 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
1186 Ai: 41 Gen: 8
1187 Sim Starting
```

```
1188 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 382.0999999999993
1189 Ai: 42 Gen: 8
1190 Sim Starting
1191 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 353.3000000000007
1192 Ai: 43 Gen: 8
1193 Sim Starting
1194 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
1195 Ai: 44 Gen: 8
1196 Sim Starting
1197 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 445.2000000000044
1198 Ai: 45 Gen: 8
1199 Sim Starting
1200 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = -101.1500000000046
1201 Ai: 46 Gen: 8
1202 Sim Starting
1203 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -111.4000000000006
1204 Ai: 47 Gen: 8
1205 Sim Starting
1206 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 399.5
1207 Ai: 0 Gen: 9
1208 Sim Starting
1209 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 10.0
1210 Ai: 1 Gen: 9
1211 Sim Starting
1212 Sim over Total pop = 0 Tick Complete = 2354
    Fitness = 217.8999999999997
1213 Ai: 2 Gen: 9
1214 Sim Starting
1215 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
1216 Ai: 3 Gen: 9
1217 Sim Starting
1218 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -22.0
1219 Ai: 4 Gen: 9
1220 Sim Starting
```

```
1221 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
1222 Ai: 5 Gen: 9
1223 Sim Starting
1224 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 490.9000000000018
1225 Ai: 6 Gen: 9
1226 Sim Starting
1227 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 322.5
1228 Ai: 7 Gen: 9
1229 Sim Starting
1230 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = -57.0000000000005
1231 Ai: 8 Gen: 9
1232 Sim Starting
1233 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 208.75
1234 Ai: 9 Gen: 9
1235 Sim Starting
1236 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 141.4500000000033
1237 Ai: 10 Gen: 9
1238 Sim Starting
1239 Sim over Total pop = 0 Tick Complete = 6853
    Fitness = 603.5500000000034
1240 Ai: 11 Gen: 9
1241 Sim Starting
1242 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 671.75
1243 Ai: 12 Gen: 9
1244 Sim Starting
1245 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 748.249999999994
1246 Ai: 13 Gen: 9
1247 Sim Starting
1248 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 423.0000000000034
1249 Ai: 14 Gen: 9
1250 Sim Starting
1251 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 77.20000000000013
1252 Ai: 15 Gen: 9
1253 Sim Starting
```

```
1254 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 148.5
1255 Ai: 16 Gen: 9
1256 Sim Starting
1257 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 382.300000000002
1258 Ai: 17 Gen: 9
1259 Sim Starting
1260 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = 259.2500000000057
1261 Ai: 18 Gen: 9
1262 Sim Starting
1263 Sim over Total pop = 0 Tick Complete = 4532
    Fitness = 396.849999999949
1264 Ai: 19 Gen: 9
1265 Sim Starting
1266 Sim over Total pop = 0 Tick Complete = 6061
    Fitness = 440.2000000000397
1267 Ai: 20 Gen: 9
1268 Sim Starting
1269 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 259.3
1270 Ai: 21 Gen: 9
1271 Sim Starting
1272 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 475.5999999999945
1273 Ai: 22 Gen: 9
1274 Sim Starting
1275 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 711.549999999985
1276 Ai: 23 Gen: 9
1277 Sim Starting
1278 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 675.000000000016
1279 Ai: 24 Gen: 9
1280 Sim Starting
1281 Sim over Total pop = 0 Tick Complete = 3817
    Fitness = 521.25
1282 Ai: 25 Gen: 9
1283 Sim Starting
1284 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 344.6999999999953
1285 Ai: 26 Gen: 9
1286 Sim Starting
```

```
1287 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 395.3999999999995
1288 Ai: 27 Gen: 9
1289 Sim Starting
1290 Sim over Total pop = 0 Tick Complete = 3432
    Fitness = 1135.000000000252
1291 Ai: 28 Gen: 9
1292 Sim Starting
1293 Sim over Total pop = 0 Tick Complete = 6303
    Fitness = 462.8000000000325
1294 Ai: 29 Gen: 9
1295 Sim Starting
1296 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 156.6000000000002
1297 Ai: 30 Gen: 9
1298 Sim Starting
1299 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 165.4500000000005
1300 Ai: 31 Gen: 9
1301 Sim Starting
1302 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
1303 Ai: 32 Gen: 9
1304 Sim Starting
1305 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 64.8500000000002
1306 Ai: 33 Gen: 9
1307 Sim Starting
1308 Sim over Total pop = 0 Tick Complete = 5115
    Fitness = 320.2000000000186
1309 Ai: 34 Gen: 9
1310 Sim Starting
1311 Sim over Total pop = 0 Tick Complete = 4191
    Fitness = 500.5
1312 Ai: 35 Gen: 9
1313 Sim Starting
1314 Sim over Total pop = 0 Tick Complete = 6347
    Fitness = 472.2499999999244
1315 Ai: 36 Gen: 9
1316 Sim Starting
1317 Sim over Total pop = 0 Tick Complete = 2849
    Fitness = 426.15
1318 Ai: 37 Gen: 9
1319 Sim Starting
```

```
1320 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 652.000000000002
1321 Ai: 38 Gen: 9
1322 Sim Starting
1323 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 297.5499999999995
1324 Ai: 39 Gen: 9
1325 Sim Starting
1326 Sim over Total pop = 0 Tick Complete = 3289
    Fitness = 534.450000000005
1327 Ai: 40 Gen: 9
1328 Sim Starting
1329 Sim over Total pop = 0 Tick Complete = 7304
    Fitness = 512.099999999998
1330 Ai: 41 Gen: 9
1331 Sim Starting
1332 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 268.5
1333 Ai: 42 Gen: 9
1334 Sim Starting
1335 Sim over Total pop = 0 Tick Complete = 3564
    Fitness = 471.85
1336 Ai: 43 Gen: 9
1337 Sim Starting
1338 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 149.0
1339 Ai: 44 Gen: 9
1340 Sim Starting
1341 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 308.0
1342 Ai: 45 Gen: 9
1343 Sim Starting
1344 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 541.250000000016
1345 Ai: 46 Gen: 9
1346 Sim Starting
1347 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
1348 Ai: 47 Gen: 9
1349 Sim Starting
1350 Sim over Total pop = 0 Tick Complete = 6886
    Fitness = 540.099999999997
1351 Ai: 48 Gen: 9
1352 Sim Starting
```

```
1353 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 248.7000000000001
1354 Ai: 0 Gen: 10
1355 Sim Starting
1356 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -133.75
1357 Ai: 1 Gen: 10
1358 Sim Starting
1359 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = -92.0
1360 Ai: 2 Gen: 10
1361 Sim Starting
1362 Sim over Total pop = 0 Tick Complete = 7194
    Fitness = 538.0000000000109
1363 Ai: 3 Gen: 10
1364 Sim Starting
1365 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
1366 Ai: 4 Gen: 10
1367 Sim Starting
1368 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 471.1000000000016
1369 Ai: 5 Gen: 10
1370 Sim Starting
1371 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 370.25
1372 Ai: 6 Gen: 10
1373 Sim Starting
1374 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 274.3000000000024
1375 Ai: 7 Gen: 10
1376 Sim Starting
1377 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 683.650000000001
1378 Ai: 8 Gen: 10
1379 Sim Starting
1380 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 243.0000000000045
1381 Ai: 9 Gen: 10
1382 Sim Starting
1383 Sim over Total pop = 0 Tick Complete = 3399
    Fitness = 851.40000000000148
1384 Ai: 10 Gen: 10
1385 Sim Starting
```

```
1386 Sim over Total pop = 0 Tick Complete = 5225
    Fitness = 438.9999999999999
1387 Ai: 11 Gen: 10
1388 Sim Starting
1389 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 191.3500000000002
1390 Ai: 12 Gen: 10
1391 Sim Starting
1392 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 229.149999999994
1393 Ai: 13 Gen: 10
1394 Sim Starting
1395 Sim over Total pop = 0 Tick Complete = 7447
    Fitness = 681.200000000144
1396 Ai: 14 Gen: 10
1397 Sim Starting
1398 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 175.5
1399 Ai: 15 Gen: 10
1400 Sim Starting
1401 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 212.5
1402 Ai: 16 Gen: 10
1403 Sim Starting
1404 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 191.2000000000005
1405 Ai: 17 Gen: 10
1406 Sim Starting
1407 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 156.0
1408 Ai: 18 Gen: 10
1409 Sim Starting
1410 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 210.0
1411 Ai: 19 Gen: 10
1412 Sim Starting
1413 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 381.849999999999
1414 Ai: 20 Gen: 10
1415 Sim Starting
1416 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 233.2500000000004
1417 Ai: 21 Gen: 10
1418 Sim Starting
```

```
1419 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = -4.049999999999983
1420 Ai: 22 Gen: 10
1421 Sim Starting
1422 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = -132.25
1423 Ai: 23 Gen: 10
1424 Sim Starting
1425 Sim over Total pop = 0 Tick Complete = 9647
    Fitness = 687.1500000000113
1426 Ai: 24 Gen: 10
1427 Sim Starting
1428 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 223.80000000000007
1429 Ai: 25 Gen: 10
1430 Sim Starting
1431 Sim over Total pop = 0 Tick Complete = 13255
    Fitness = 1365.4999999999575
1432 Ai: 26 Gen: 10
1433 Sim Starting
1434 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 309.5000000000002
1435 Ai: 27 Gen: 10
1436 Sim Starting
1437 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 169.5
1438 Ai: 28 Gen: 10
1439 Sim Starting
1440 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1441 Ai: 29 Gen: 10
1442 Sim Starting
1443 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
1444 Ai: 30 Gen: 10
1445 Sim Starting
1446 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 172.0
1447 Ai: 31 Gen: 10
1448 Sim Starting
1449 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 269.3499999999945
1450 Ai: 32 Gen: 10
1451 Sim Starting
```

```
1452 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 666.6500000000012
1453 Ai: 33 Gen: 10
1454 Sim Starting
1455 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 178.0
1456 Ai: 34 Gen: 10
1457 Sim Starting
1458 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 440.9500000000024
1459 Ai: 35 Gen: 10
1460 Sim Starting
1461 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = 1066.6999999999916
1462 Ai: 36 Gen: 10
1463 Sim Starting
1464 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 120.6499999999989
1465 Ai: 37 Gen: 10
1466 Sim Starting
1467 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 564.5999999999999
1468 Ai: 38 Gen: 10
1469 Sim Starting
1470 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
1471 Ai: 39 Gen: 10
1472 Sim Starting
1473 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
1474 Ai: 40 Gen: 10
1475 Sim Starting
1476 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1477 Ai: 41 Gen: 10
1478 Sim Starting
1479 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 244.5
1480 Ai: 42 Gen: 10
1481 Sim Starting
1482 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 703.299999999995
1483 Ai: 43 Gen: 10
1484 Sim Starting
```

```
1485 Sim over Total pop = 0 Tick Complete = 2992
    Fitness = 128.4999999999995
1486 Ai: 44 Gen: 10
1487 Sim Starting
1488 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 174.1999999999996
1489 Ai: 45 Gen: 10
1490 Sim Starting
1491 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
1492 Ai: 46 Gen: 10
1493 Sim Starting
1494 Sim over Total pop = 0 Tick Complete = 17413
    Fitness = 1636.3500000000727
1495 Ai: 0 Gen: 11
1496 Sim Starting
1497 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = -88.85
1498 Ai: 1 Gen: 11
1499 Sim Starting
1500 Sim over Total pop = 0 Tick Complete = 3036
    Fitness = 150.0
1501 Ai: 2 Gen: 11
1502 Sim Starting
1503 Sim over Total pop = 0 Tick Complete = 9383
    Fitness = 608.0000000000131
1504 Ai: 3 Gen: 11
1505 Sim Starting
1506 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 238.350000000000002
1507 Ai: 4 Gen: 11
1508 Sim Starting
1509 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 161.5
1510 Ai: 5 Gen: 11
1511 Sim Starting
1512 Sim over Total pop = 0 Tick Complete = 4356
    Fitness = 411.6500000000005
1513 Ai: 6 Gen: 11
1514 Sim Starting
1515 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 505.3499999999998
1516 Ai: 7 Gen: 11
1517 Sim Starting
```

```
1518 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
1519 Ai: 8 Gen: 11
1520 Sim Starting
1521 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 222.75
1522 Ai: 9 Gen: 11
1523 Sim Starting
1524 Sim over Total pop = 0 Tick Complete = 1848
    Fitness = 899.299999999988
1525 Ai: 10 Gen: 11
1526 Sim Starting
1527 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
1528 Ai: 11 Gen: 11
1529 Sim Starting
1530 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 72.5
1531 Ai: 12 Gen: 11
1532 Sim Starting
1533 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
1534 Ai: 13 Gen: 11
1535 Sim Starting
1536 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 241.5
1537 Ai: 14 Gen: 11
1538 Sim Starting
1539 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 496.5499999999995
1540 Ai: 15 Gen: 11
1541 Sim Starting
1542 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 390.5499999999995
1543 Ai: 16 Gen: 11
1544 Sim Starting
1545 Sim over Total pop = 0 Tick Complete = 6754
    Fitness = 406.100000000037
1546 Ai: 17 Gen: 11
1547 Sim Starting
1548 Sim over Total pop = 0 Tick Complete = 2552
    Fitness = 63.6499999999995
1549 Ai: 18 Gen: 11
1550 Sim Starting
```

```
1551 Sim over Total pop = 0 Tick Complete = 4851
    Fitness = 697.749999999999
1552 Ai: 19 Gen: 11
1553 Sim Starting
1554 Sim over Total pop = 0 Tick Complete = 2398
    Fitness = 576.400000000008
1555 Ai: 20 Gen: 11
1556 Sim Starting
1557 Sim over Total pop = 0 Tick Complete = 3674
    Fitness = 1039.649999999944
1558 Ai: 21 Gen: 11
1559 Sim Starting
1560 Sim over Total pop = 0 Tick Complete = 4477
    Fitness = 850.849999999979
1561 Ai: 22 Gen: 11
1562 Sim Starting
1563 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 382.1500000000043
1564 Ai: 23 Gen: 11
1565 Sim Starting
1566 Sim over Total pop = 0 Tick Complete = 3289
    Fitness = 486.0500000000126
1567 Ai: 24 Gen: 11
1568 Sim Starting
1569 Sim over Total pop = 0 Tick Complete = 2541
    Fitness = -14.24999999999709
1570 Ai: 25 Gen: 11
1571 Sim Starting
1572 Sim over Total pop = 0 Tick Complete = 2849
    Fitness = 177.7999999999868
1573 Ai: 26 Gen: 11
1574 Sim Starting
1575 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 80.1000000000014
1576 Ai: 27 Gen: 11
1577 Sim Starting
1578 Sim over Total pop = 0 Tick Complete = 2640
    Fitness = 864.300000000007
1579 Ai: 28 Gen: 11
1580 Sim Starting
1581 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 443.3000000000003
1582 Ai: 29 Gen: 11
1583 Sim Starting
```

```
1584 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 233.85000000000002
1585 Ai: 30 Gen: 11
1586 Sim Starting
1587 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 34.5
1588 Ai: 31 Gen: 11
1589 Sim Starting
1590 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 247.2
1591 Ai: 32 Gen: 11
1592 Sim Starting
1593 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 585.949999999992
1594 Ai: 33 Gen: 11
1595 Sim Starting
1596 Sim over Total pop = 0 Tick Complete = 3696
    Fitness = 317.99999999998
1597 Ai: 34 Gen: 11
1598 Sim Starting
1599 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 366.4999999999875
1600 Ai: 35 Gen: 11
1601 Sim Starting
1602 Sim over Total pop = 0 Tick Complete = 2211
    Fitness = 551.649999999982
1603 Ai: 36 Gen: 11
1604 Sim Starting
1605 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 434.850000000006
1606 Ai: 37 Gen: 11
1607 Sim Starting
1608 Sim over Total pop = 0 Tick Complete = 6314
    Fitness = 1637.3500000000079
1609 Ai: 38 Gen: 11
1610 Sim Starting
1611 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 356.0500000000115
1612 Ai: 39 Gen: 11
1613 Sim Starting
1614 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
1615 Ai: 40 Gen: 11
1616 Sim Starting
```

```
1617 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1618 Ai: 41 Gen: 11
1619 Sim Starting
1620 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
1621 Ai: 42 Gen: 11
1622 Sim Starting
1623 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 181.0499999999998
1624 Ai: 43 Gen: 11
1625 Sim Starting
1626 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
1627 Ai: 44 Gen: 11
1628 Sim Starting
1629 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 584.299999999968
1630 Ai: 45 Gen: 11
1631 Sim Starting
1632 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 37.0
1633 Ai: 46 Gen: 11
1634 Sim Starting
1635 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 359.6500000000026
1636 Ai: 47 Gen: 11
1637 Sim Starting
1638 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 378.6
1639 Ai: 48 Gen: 11
1640 Sim Starting
1641 Sim over Total pop = 0 Tick Complete = 2816
    Fitness = 683.350000000001
1642 Ai: 49 Gen: 11
1643 Sim Starting
1644 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
1645 Ai: 0 Gen: 12
1646 Sim Starting
1647 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = -99.4999999999987
1648 Ai: 1 Gen: 12
1649 Sim Starting
```

```
1650 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = -109.49999999999999
1651 Ai: 2 Gen: 12
1652 Sim Starting
1653 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 192.85000000000025
1654 Ai: 3 Gen: 12
1655 Sim Starting
1656 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 84.8499999999964
1657 Ai: 4 Gen: 12
1658 Sim Starting
1659 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
1660 Ai: 5 Gen: 12
1661 Sim Starting
1662 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
1663 Ai: 6 Gen: 12
1664 Sim Starting
1665 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 676.1500000000008
1666 Ai: 7 Gen: 12
1667 Sim Starting
1668 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 339.5
1669 Ai: 8 Gen: 12
1670 Sim Starting
1671 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 362.75
1672 Ai: 9 Gen: 12
1673 Sim Starting
1674 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 290.95
1675 Ai: 10 Gen: 12
1676 Sim Starting
1677 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 359.9500000000005
1678 Ai: 11 Gen: 12
1679 Sim Starting
1680 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 487.8999999999907
1681 Ai: 12 Gen: 12
1682 Sim Starting
```

```
1683 Sim over Total pop = 0 Tick Complete = 9141
    Fitness = 622.0499999999984
1684 Ai: 13 Gen: 12
1685 Sim Starting
1686 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 335.5999999999997
1687 Ai: 14 Gen: 12
1688 Sim Starting
1689 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 373.7000000000005
1690 Ai: 15 Gen: 12
1691 Sim Starting
1692 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 229.0
1693 Ai: 16 Gen: 12
1694 Sim Starting
1695 Sim over Total pop = 0 Tick Complete = 8360
    Fitness = 854.6500000000183
1696 Ai: 17 Gen: 12
1697 Sim Starting
1698 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -151.6000000000002
1699 Ai: 18 Gen: 12
1700 Sim Starting
1701 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 184.0
1702 Ai: 19 Gen: 12
1703 Sim Starting
1704 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 236.9000000000003
1705 Ai: 20 Gen: 12
1706 Sim Starting
1707 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 72.0
1708 Ai: 21 Gen: 12
1709 Sim Starting
1710 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
1711 Ai: 22 Gen: 12
1712 Sim Starting
1713 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 651.2000000000005
1714 Ai: 23 Gen: 12
1715 Sim Starting
```

```
1716 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 275.14999999999816
1717 Ai: 24 Gen: 12
1718 Sim Starting
1719 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 488.79999999999757
1720 Ai: 25 Gen: 12
1721 Sim Starting
1722 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 253.55000000000024
1723 Ai: 26 Gen: 12
1724 Sim Starting
1725 Sim over Total pop = 0 Tick Complete = 8371
    Fitness = 306.4499999999993
1726 Ai: 27 Gen: 12
1727 Sim Starting
1728 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 347.7999999999976
1729 Ai: 28 Gen: 12
1730 Sim Starting
1731 Sim over Total pop = 0 Tick Complete = 2937
    Fitness = 466.2000000000005
1732 Ai: 29 Gen: 12
1733 Sim Starting
1734 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 173.5499999999995
1735 Ai: 30 Gen: 12
1736 Sim Starting
1737 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 516.8500000000008
1738 Ai: 31 Gen: 12
1739 Sim Starting
1740 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 353.6500000000002
1741 Ai: 32 Gen: 12
1742 Sim Starting
1743 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
1744 Ai: 33 Gen: 12
1745 Sim Starting
1746 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 6.5
1747 Ai: 34 Gen: 12
1748 Sim Starting
```

```
1749 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 64.7000000000001
1750 Ai: 35 Gen: 12
1751 Sim Starting
1752 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 304.0
1753 Ai: 36 Gen: 12
1754 Sim Starting
1755 Sim over Total pop = 0 Tick Complete = 2904
    Fitness = 109.1499999999975
1756 Ai: 37 Gen: 12
1757 Sim Starting
1758 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 36.09999999999845
1759 Ai: 38 Gen: 12
1760 Sim Starting
1761 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 269.199999999988
1762 Ai: 39 Gen: 12
1763 Sim Starting
1764 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 402.450000000003
1765 Ai: 40 Gen: 12
1766 Sim Starting
1767 Sim over Total pop = 0 Tick Complete = 1617
    Fitness = 288.200000000007
1768 Ai: 41 Gen: 12
1769 Sim Starting
1770 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 245.299999999995
1771 Ai: 42 Gen: 12
1772 Sim Starting
1773 Sim over Total pop = 0 Tick Complete = 4004
    Fitness = 765.800000000068
1774 Ai: 43 Gen: 12
1775 Sim Starting
1776 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 366.5
1777 Ai: 44 Gen: 12
1778 Sim Starting
1779 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 475.150000000002
1780 Ai: 45 Gen: 12
1781 Sim Starting
```

```
1782 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 416.14999999999964
1783 Ai: 46 Gen: 12
1784 Sim Starting
1785 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 314.0499999999995
1786 Ai: 47 Gen: 12
1787 Sim Starting
1788 Sim over Total pop = 0 Tick Complete = 7733
    Fitness = 1168.9500000000162
1789 Ai: 48 Gen: 12
1790 Sim Starting
1791 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -199.75
1792 Ai: 0 Gen: 13
1793 Sim Starting
1794 Sim over Total pop = 0 Tick Complete = 2805
    Fitness = 445.6999999999555
1795 Ai: 1 Gen: 13
1796 Sim Starting
1797 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = -90.3999999999999
1798 Ai: 2 Gen: 13
1799 Sim Starting
1800 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 111.8000000000007
1801 Ai: 3 Gen: 13
1802 Sim Starting
1803 Sim over Total pop = 0 Tick Complete = 9911
    Fitness = 622.199999999942
1804 Ai: 4 Gen: 13
1805 Sim Starting
1806 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = -97.599999999996
1807 Ai: 5 Gen: 13
1808 Sim Starting
1809 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
1810 Ai: 6 Gen: 13
1811 Sim Starting
1812 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
1813 Ai: 7 Gen: 13
1814 Sim Starting
```

```
1815 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
1816 Ai: 8 Gen: 13
1817 Sim Starting
1818 Sim over Total pop = 0 Tick Complete = 2838
    Fitness = 170.6999999999992
1819 Ai: 9 Gen: 13
1820 Sim Starting
1821 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 372.0
1822 Ai: 10 Gen: 13
1823 Sim Starting
1824 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = -36.45000000000001
1825 Ai: 11 Gen: 13
1826 Sim Starting
1827 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 409.4
1828 Ai: 12 Gen: 13
1829 Sim Starting
1830 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 650.850000000001
1831 Ai: 13 Gen: 13
1832 Sim Starting
1833 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 330.9
1834 Ai: 14 Gen: 13
1835 Sim Starting
1836 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
1837 Ai: 15 Gen: 13
1838 Sim Starting
1839 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
1840 Ai: 16 Gen: 13
1841 Sim Starting
1842 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
1843 Ai: 17 Gen: 13
1844 Sim Starting
1845 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 563.7500000000019
1846 Ai: 18 Gen: 13
1847 Sim Starting
```

```
1848 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 50.20000000000002
1849 Ai: 19 Gen: 13
1850 Sim Starting
1851 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 330.4
1852 Ai: 20 Gen: 13
1853 Sim Starting
1854 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 623.1
1855 Ai: 21 Gen: 13
1856 Sim Starting
1857 Sim over Total pop = 0 Tick Complete = 2948
    Fitness = 580.15
1858 Ai: 22 Gen: 13
1859 Sim Starting
1860 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 182.5
1861 Ai: 23 Gen: 13
1862 Sim Starting
1863 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 641.899999999999
1864 Ai: 24 Gen: 13
1865 Sim Starting
1866 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 137.95
1867 Ai: 25 Gen: 13
1868 Sim Starting
1869 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 162.25
1870 Ai: 26 Gen: 13
1871 Sim Starting
1872 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 265.0
1873 Ai: 27 Gen: 13
1874 Sim Starting
1875 Sim over Total pop = 0 Tick Complete = 5467
    Fitness = 376.2000000000323
1876 Ai: 28 Gen: 13
1877 Sim Starting
1878 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 231.85000000000002
1879 Ai: 29 Gen: 13
1880 Sim Starting
```

```
1881 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 180.35000000000002
1882 Ai: 30 Gen: 13
1883 Sim Starting
1884 Sim over Total pop = 0 Tick Complete = 5588
    Fitness = 462.0499999999967
1885 Ai: 31 Gen: 13
1886 Sim Starting
1887 Sim over Total pop = 0 Tick Complete = 2266
    Fitness = 74.6499999999993
1888 Ai: 32 Gen: 13
1889 Sim Starting
1890 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 317.05000000000007
1891 Ai: 33 Gen: 13
1892 Sim Starting
1893 Sim over Total pop = 0 Tick Complete = 4345
    Fitness = 723.2500000000001
1894 Ai: 34 Gen: 13
1895 Sim Starting
1896 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 683.8
1897 Ai: 35 Gen: 13
1898 Sim Starting
1899 Sim over Total pop = 0 Tick Complete = 16687
    Fitness = 1099.549999999998
1900 Ai: 36 Gen: 13
1901 Sim Starting
1902 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 305.5
1903 Ai: 37 Gen: 13
1904 Sim Starting
1905 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 288.5
1906 Ai: 38 Gen: 13
1907 Sim Starting
1908 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 254.4500000000005
1909 Ai: 39 Gen: 13
1910 Sim Starting
1911 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
1912 Ai: 40 Gen: 13
1913 Sim Starting
```

```
1914 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 249.0
1915 Ai: 41 Gen: 13
1916 Sim Starting
1917 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 306.0
1918 Ai: 42 Gen: 13
1919 Sim Starting
1920 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 436.9999999999943
1921 Ai: 43 Gen: 13
1922 Sim Starting
1923 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 336.1999999999993
1924 Ai: 44 Gen: 13
1925 Sim Starting
1926 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -5.20000000000017
1927 Ai: 45 Gen: 13
1928 Sim Starting
1929 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 234.7000000000005
1930 Ai: 46 Gen: 13
1931 Sim Starting
1932 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 381.4499999999993
1933 Ai: 47 Gen: 13
1934 Sim Starting
1935 Sim over Total pop = 0 Tick Complete = 3003
    Fitness = 743.100000000029
1936 Ai: 48 Gen: 13
1937 Sim Starting
1938 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 422.749999999999
1939 Ai: 49 Gen: 13
1940 Sim Starting
1941 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 389.3499999999997
1942 Ai: 50 Gen: 13
1943 Sim Starting
1944 Sim over Total pop = 0 Tick Complete = 12980
    Fitness = 1185.5999999999897
1945 Ai: 51 Gen: 13
1946 Sim Starting
```

```
1947 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 251.5
1948 Ai: 0 Gen: 14
1949 Sim Starting
1950 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 262.8000000000004
1951 Ai: 1 Gen: 14
1952 Sim Starting
1953 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 240.0
1954 Ai: 2 Gen: 14
1955 Sim Starting
1956 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 129.1500000000001
1957 Ai: 3 Gen: 14
1958 Sim Starting
1959 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 496.3499999999998
1960 Ai: 4 Gen: 14
1961 Sim Starting
1962 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 242.64999999999998
1963 Ai: 5 Gen: 14
1964 Sim Starting
1965 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
1966 Ai: 6 Gen: 14
1967 Sim Starting
1968 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
1969 Ai: 7 Gen: 14
1970 Sim Starting
1971 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
1972 Ai: 8 Gen: 14
1973 Sim Starting
1974 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
1975 Ai: 9 Gen: 14
1976 Sim Starting
1977 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 710.10000000000014
1978 Ai: 10 Gen: 14
1979 Sim Starting
```

```
1980 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 372.0
1981 Ai: 11 Gen: 14
1982 Sim Starting
1983 Sim over Total pop = 0 Tick Complete = 5918
    Fitness = 402.099999999954
1984 Ai: 12 Gen: 14
1985 Sim Starting
1986 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 267.0
1987 Ai: 13 Gen: 14
1988 Sim Starting
1989 Sim over Total pop = 0 Tick Complete = 5302
    Fitness = 554.64999999995
1990 Ai: 14 Gen: 14
1991 Sim Starting
1992 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
1993 Ai: 15 Gen: 14
1994 Sim Starting
1995 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -172.35
1996 Ai: 16 Gen: 14
1997 Sim Starting
1998 Sim over Total pop = 0 Tick Complete = 2354
    Fitness = 116.65000000000003
1999 Ai: 17 Gen: 14
2000 Sim Starting
2001 Sim over Total pop = 0 Tick Complete = 539
    Fitness = -196.4999999999997
2002 Ai: 18 Gen: 14
2003 Sim Starting
2004 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 100.2999999999973
2005 Ai: 19 Gen: 14
2006 Sim Starting
2007 Sim over Total pop = 0 Tick Complete = 3938
    Fitness = 600.9499999999978
2008 Ai: 20 Gen: 14
2009 Sim Starting
2010 Sim over Total pop = 0 Tick Complete = 4235
    Fitness = 130.1499999999986
2011 Ai: 21 Gen: 14
2012 Sim Starting
```

```
2013 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 218.5
2014 Ai: 22 Gen: 14
2015 Sim Starting
2016 Sim over Total pop = 0 Tick Complete = 18128
    Fitness = 1870.6500000000597
2017 Ai: 23 Gen: 14
2018 Sim Starting
2019 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 309.7999999999995
2020 Ai: 24 Gen: 14
2021 Sim Starting
2022 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 161.7999999999998
2023 Ai: 25 Gen: 14
2024 Sim Starting
2025 Sim over Total pop = 0 Tick Complete = 12210
    Fitness = 919.0500000000001
2026 Ai: 26 Gen: 14
2027 Sim Starting
2028 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 114.5
2029 Ai: 27 Gen: 14
2030 Sim Starting
2031 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 305.099999999996
2032 Ai: 28 Gen: 14
2033 Sim Starting
2034 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -192.55
2035 Ai: 29 Gen: 14
2036 Sim Starting
2037 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 105.1499999999998
2038 Ai: 30 Gen: 14
2039 Sim Starting
2040 Sim over Total pop = 0 Tick Complete = 2849
    Fitness = 325.6000000000016
2041 Ai: 31 Gen: 14
2042 Sim Starting
2043 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 729.9500000000005
2044 Ai: 32 Gen: 14
2045 Sim Starting
```

```
2046 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
2047 Ai: 33 Gen: 14
2048 Sim Starting
2049 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 187.8999999999998
2050 Ai: 34 Gen: 14
2051 Sim Starting
2052 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 154.0499999999998
2053 Ai: 35 Gen: 14
2054 Sim Starting
2055 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 157.5
2056 Ai: 36 Gen: 14
2057 Sim Starting
2058 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 384.3999999999895
2059 Ai: 37 Gen: 14
2060 Sim Starting
2061 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
2062 Ai: 38 Gen: 14
2063 Sim Starting
2064 Sim over Total pop = 0 Tick Complete = 2695
    Fitness = 461.350000000004
2065 Ai: 39 Gen: 14
2066 Sim Starting
2067 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 434.9999999999886
2068 Ai: 40 Gen: 14
2069 Sim Starting
2070 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -148.25
2071 Ai: 41 Gen: 14
2072 Sim Starting
2073 Sim over Total pop = 0 Tick Complete = 1793
    Fitness = 663.700000000027
2074 Ai: 42 Gen: 14
2075 Sim Starting
2076 Sim over Total pop = 0 Tick Complete = 5555
    Fitness = 426.1000000000383
2077 Ai: 43 Gen: 14
2078 Sim Starting
```

```
2079 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 83.00000000000026
2080 Ai: 44 Gen: 14
2081 Sim Starting
2082 Sim over Total pop = 0 Tick Complete = 15367
    Fitness = 1822.7000000000176
2083 Ai: 45 Gen: 14
2084 Sim Starting
2085 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -167.25
2086 Ai: 46 Gen: 14
2087 Sim Starting
2088 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 346.8500000000014
2089 Ai: 47 Gen: 14
2090 Sim Starting
2091 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 158.1
2092 Ai: 48 Gen: 14
2093 Sim Starting
2094 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 759.900000000032
2095 Ai: 49 Gen: 14
2096 Sim Starting
2097 Sim over Total pop = 0 Tick Complete = 902
    Fitness = -143.5
2098 Ai: 50 Gen: 14
2099 Sim Starting
2100 Sim over Total pop = 0 Tick Complete = 6941
    Fitness = 1663.700000000024
2101 Ai: 0 Gen: 15
2102 Sim Starting
2103 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = -37.54999999999976
2104 Ai: 1 Gen: 15
2105 Sim Starting
2106 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = -3.5500000000000185
2107 Ai: 2 Gen: 15
2108 Sim Starting
2109 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
2110 Ai: 3 Gen: 15
2111 Sim Starting
```

```
2112 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
2113 Ai: 4 Gen: 15
2114 Sim Starting
2115 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 383.0
2116 Ai: 5 Gen: 15
2117 Sim Starting
2118 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = -120.25
2119 Ai: 6 Gen: 15
2120 Sim Starting
2121 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 267.5
2122 Ai: 7 Gen: 15
2123 Sim Starting
2124 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
2125 Ai: 8 Gen: 15
2126 Sim Starting
2127 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 190.5
2128 Ai: 9 Gen: 15
2129 Sim Starting
2130 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 318.0
2131 Ai: 10 Gen: 15
2132 Sim Starting
2133 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 328.0
2134 Ai: 11 Gen: 15
2135 Sim Starting
2136 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 768.5000000000082
2137 Ai: 12 Gen: 15
2138 Sim Starting
2139 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
2140 Ai: 13 Gen: 15
2141 Sim Starting
2142 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 423.20000000000005
2143 Ai: 14 Gen: 15
2144 Sim Starting
```

```
2145 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
2146 Ai: 15 Gen: 15
2147 Sim Starting
2148 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
2149 Ai: 16 Gen: 15
2150 Sim Starting
2151 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 438.65000000000225
2152 Ai: 17 Gen: 15
2153 Sim Starting
2154 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 338.9
2155 Ai: 18 Gen: 15
2156 Sim Starting
2157 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -101.69999999999997
2158 Ai: 19 Gen: 15
2159 Sim Starting
2160 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
2161 Ai: 20 Gen: 15
2162 Sim Starting
2163 Sim over Total pop = 0 Tick Complete = 2717
    Fitness = 426.2499999999983
2164 Ai: 21 Gen: 15
2165 Sim Starting
2166 Sim over Total pop = 0 Tick Complete = 1408
    Fitness = 297.500000000001
2167 Ai: 22 Gen: 15
2168 Sim Starting
2169 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -109.5
2170 Ai: 23 Gen: 15
2171 Sim Starting
2172 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 317.8500000000001
2173 Ai: 24 Gen: 15
2174 Sim Starting
2175 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 563.9999999999976
2176 Ai: 25 Gen: 15
2177 Sim Starting
```

```
2178 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
2179 Ai: 26 Gen: 15
2180 Sim Starting
2181 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 634.1500000000015
2182 Ai: 27 Gen: 15
2183 Sim Starting
2184 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -158.0
2185 Ai: 28 Gen: 15
2186 Sim Starting
2187 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 194.5
2188 Ai: 29 Gen: 15
2189 Sim Starting
2190 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 263.0
2191 Ai: 30 Gen: 15
2192 Sim Starting
2193 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 540.5
2194 Ai: 31 Gen: 15
2195 Sim Starting
2196 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
2197 Ai: 32 Gen: 15
2198 Sim Starting
2199 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -61.3500000000005
2200 Ai: 33 Gen: 15
2201 Sim Starting
2202 Sim over Total pop = 0 Tick Complete = 8943
    Fitness = 1338.7999999999906
2203 Ai: 34 Gen: 15
2204 Sim Starting
2205 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 120.7999999999999
2206 Ai: 35 Gen: 15
2207 Sim Starting
2208 Sim over Total pop = 0 Tick Complete = 15466
    Fitness = 1007.3499999999747
2209 Ai: 36 Gen: 15
2210 Sim Starting
```

```
2211 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 79.04999999999998
2212 Ai: 37 Gen: 15
2213 Sim Starting
2214 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 65.0
2215 Ai: 38 Gen: 15
2216 Sim Starting
2217 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 299.5000000000009
2218 Ai: 39 Gen: 15
2219 Sim Starting
2220 Sim over Total pop = 0 Tick Complete = 2948
    Fitness = 693.2
2221 Ai: 40 Gen: 15
2222 Sim Starting
2223 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 279.5
2224 Ai: 41 Gen: 15
2225 Sim Starting
2226 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 41.65000000000009
2227 Ai: 42 Gen: 15
2228 Sim Starting
2229 Sim over Total pop = 0 Tick Complete = 2915
    Fitness = 563.6500000000023
2230 Ai: 43 Gen: 15
2231 Sim Starting
2232 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 344.0
2233 Ai: 44 Gen: 15
2234 Sim Starting
2235 Sim over Total pop = 0 Tick Complete = 2387
    Fitness = 248.499999999999
2236 Ai: 45 Gen: 15
2237 Sim Starting
2238 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 249.6999999999982
2239 Ai: 46 Gen: 15
2240 Sim Starting
2241 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 22.95000000000003
2242 Ai: 47 Gen: 15
2243 Sim Starting
```

```
2244 Sim over Total pop = 0 Tick Complete = 4763
    Fitness = 233.40000000000128
2245 Ai: 48 Gen: 15
2246 Sim Starting
2247 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -50.250000000000014
2248 Ai: 49 Gen: 15
2249 Sim Starting
2250 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 66.35000000000002
2251 Ai: 0 Gen: 16
2252 Sim Starting
2253 Sim over Total pop = 0 Tick Complete = 4708
    Fitness = 107.1999999999933
2254 Ai: 1 Gen: 16
2255 Sim Starting
2256 Sim over Total pop = 0 Tick Complete = 891
    Fitness = -64.44999999999999
2257 Ai: 2 Gen: 16
2258 Sim Starting
2259 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 242.15000000000003
2260 Ai: 3 Gen: 16
2261 Sim Starting
2262 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -181.15
2263 Ai: 4 Gen: 16
2264 Sim Starting
2265 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 638.85
2266 Ai: 5 Gen: 16
2267 Sim Starting
2268 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 455.8000000000019
2269 Ai: 6 Gen: 16
2270 Sim Starting
2271 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
2272 Ai: 7 Gen: 16
2273 Sim Starting
2274 Sim over Total pop = 0 Tick Complete = 2123
    Fitness = 471.25000000000205
2275 Ai: 8 Gen: 16
2276 Sim Starting
```

```
2277 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
2278 Ai: 9 Gen: 16
2279 Sim Starting
2280 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
2281 Ai: 10 Gen: 16
2282 Sim Starting
2283 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 304.0
2284 Ai: 11 Gen: 16
2285 Sim Starting
2286 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
2287 Ai: 12 Gen: 16
2288 Sim Starting
2289 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 227.5
2290 Ai: 13 Gen: 16
2291 Sim Starting
2292 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 234.0
2293 Ai: 14 Gen: 16
2294 Sim Starting
2295 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 240.0
2296 Ai: 15 Gen: 16
2297 Sim Starting
2298 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
2299 Ai: 16 Gen: 16
2300 Sim Starting
2301 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -94.5
2302 Ai: 17 Gen: 16
2303 Sim Starting
2304 Sim over Total pop = 0 Tick Complete = 1837
    Fitness = 476.14999999999895
2305 Ai: 18 Gen: 16
2306 Sim Starting
2307 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 40.79999999999997
2308 Ai: 19 Gen: 16
2309 Sim Starting
```

```
2310 Sim over Total pop = 0 Tick Complete = 2354
    Fitness = 200.85000000000002
2311 Ai: 20 Gen: 16
2312 Sim Starting
2313 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 145.1499999999986
2314 Ai: 21 Gen: 16
2315 Sim Starting
2316 Sim over Total pop = 0 Tick Complete = 3718
    Fitness = 141.7000000000002
2317 Ai: 22 Gen: 16
2318 Sim Starting
2319 Sim over Total pop = 0 Tick Complete = 5005
    Fitness = 345.4999999999744
2320 Ai: 23 Gen: 16
2321 Sim Starting
2322 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 142.2999999999976
2323 Ai: 24 Gen: 16
2324 Sim Starting
2325 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = 46.0
2326 Ai: 25 Gen: 16
2327 Sim Starting
2328 Sim over Total pop = 0 Tick Complete = 2915
    Fitness = 658.650000000044
2329 Ai: 26 Gen: 16
2330 Sim Starting
2331 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 428.7499999999926
2332 Ai: 27 Gen: 16
2333 Sim Starting
2334 Sim over Total pop = 0 Tick Complete = 2937
    Fitness = 953.349999999942
2335 Ai: 28 Gen: 16
2336 Sim Starting
2337 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 219.6499999999998
2338 Ai: 29 Gen: 16
2339 Sim Starting
2340 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 1009.100000000049
2341 Ai: 30 Gen: 16
2342 Sim Starting
```

```
2343 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 509.5999999999983
2344 Ai: 31 Gen: 16
2345 Sim Starting
2346 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 253.8499999999957
2347 Ai: 32 Gen: 16
2348 Sim Starting
2349 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 168.1499999999998
2350 Ai: 33 Gen: 16
2351 Sim Starting
2352 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
2353 Ai: 34 Gen: 16
2354 Sim Starting
2355 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 679.5000000000014
2356 Ai: 35 Gen: 16
2357 Sim Starting
2358 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 608.3499999999988
2359 Ai: 36 Gen: 16
2360 Sim Starting
2361 Sim over Total pop = 0 Tick Complete = 4092
    Fitness = 422.7999999999999
2362 Ai: 37 Gen: 16
2363 Sim Starting
2364 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -167.0
2365 Ai: 38 Gen: 16
2366 Sim Starting
2367 Sim over Total pop = 0 Tick Complete = 6347
    Fitness = 404.9499999999783
2368 Ai: 39 Gen: 16
2369 Sim Starting
2370 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 654.6500000000028
2371 Ai: 40 Gen: 16
2372 Sim Starting
2373 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 207.5
2374 Ai: 41 Gen: 16
2375 Sim Starting
```

```
2376 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
2377 Ai: 42 Gen: 16
2378 Sim Starting
2379 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 527.299999999993
2380 Ai: 43 Gen: 16
2381 Sim Starting
2382 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
2383 Ai: 44 Gen: 16
2384 Sim Starting
2385 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 78.149999999998
2386 Ai: 45 Gen: 16
2387 Sim Starting
2388 Sim over Total pop = 0 Tick Complete = 29667
    Fitness = 2378.89999999804
2389 Ai: 46 Gen: 16
2390 Sim Starting
2391 Sim over Total pop = 0 Tick Complete = 539
    Fitness = 15.0
2392 Ai: 47 Gen: 16
2393 Sim Starting
2394 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
2395 Ai: 48 Gen: 16
2396 Sim Starting
2397 Sim over Total pop = 0 Tick Complete = 7601
    Fitness = 892.549999999862
2398 Ai: 49 Gen: 16
2399 Sim Starting
2400 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
2401 Ai: 0 Gen: 17
2402 Sim Starting
2403 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -145.0
2404 Ai: 1 Gen: 17
2405 Sim Starting
2406 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = -81.2499999999999
2407 Ai: 2 Gen: 17
2408 Sim Starting
```

```
2409 Sim over Total pop = 0 Tick Complete = 1837
    Fitness = 529.7999999999992
2410 Ai: 3 Gen: 17
2411 Sim Starting
2412 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 318.4500000000084
2413 Ai: 4 Gen: 17
2414 Sim Starting
2415 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 294.3000000000005
2416 Ai: 5 Gen: 17
2417 Sim Starting
2418 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 321.2499999999984
2419 Ai: 6 Gen: 17
2420 Sim Starting
2421 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
2422 Ai: 7 Gen: 17
2423 Sim Starting
2424 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 290.0
2425 Ai: 8 Gen: 17
2426 Sim Starting
2427 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
2428 Ai: 9 Gen: 17
2429 Sim Starting
2430 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
2431 Ai: 10 Gen: 17
2432 Sim Starting
2433 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 507.6000000000116
2434 Ai: 11 Gen: 17
2435 Sim Starting
2436 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 80.6000000000002
2437 Ai: 12 Gen: 17
2438 Sim Starting
2439 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 97.5
2440 Ai: 13 Gen: 17
2441 Sim Starting
```

```
2442 Sim over Total pop = 0 Tick Complete = 3212
    Fitness = 181.60000000000007
2443 Ai: 14 Gen: 17
2444 Sim Starting
2445 Sim over Total pop = 0 Tick Complete = 3751
    Fitness = 540.1000000000007
2446 Ai: 15 Gen: 17
2447 Sim Starting
2448 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
2449 Ai: 16 Gen: 17
2450 Sim Starting
2451 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 525.8999999999999
2452 Ai: 17 Gen: 17
2453 Sim Starting
2454 Sim over Total pop = 0 Tick Complete = 4752
    Fitness = 515.6499999999987
2455 Ai: 18 Gen: 17
2456 Sim Starting
2457 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 110.9499999999999
2458 Ai: 19 Gen: 17
2459 Sim Starting
2460 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 143.9000000000001
2461 Ai: 20 Gen: 17
2462 Sim Starting
2463 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 175.5
2464 Ai: 21 Gen: 17
2465 Sim Starting
2466 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 314.3499999999826
2467 Ai: 22 Gen: 17
2468 Sim Starting
2469 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 408.1000000000005
2470 Ai: 23 Gen: 17
2471 Sim Starting
2472 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 302.25000000000017
2473 Ai: 24 Gen: 17
2474 Sim Starting
```

```
2475 Sim over Total pop = 0 Tick Complete = 1815
    Fitness = 461.84999999999934
2476 Ai: 25 Gen: 17
2477 Sim Starting
2478 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 106.39999999999999
2479 Ai: 26 Gen: 17
2480 Sim Starting
2481 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
2482 Ai: 27 Gen: 17
2483 Sim Starting
2484 Sim over Total pop = 0 Tick Complete = 4026
    Fitness = 927.8999999999928
2485 Ai: 28 Gen: 17
2486 Sim Starting
2487 Sim over Total pop = 0 Tick Complete = 2618
    Fitness = 344.3500000000005
2488 Ai: 29 Gen: 17
2489 Sim Starting
2490 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 291.5999999999985
2491 Ai: 30 Gen: 17
2492 Sim Starting
2493 Sim over Total pop = 0 Tick Complete = 990
    Fitness = -23.4999999999997
2494 Ai: 31 Gen: 17
2495 Sim Starting
2496 Sim over Total pop = 0 Tick Complete = 15499
    Fitness = 1224.7000000000107
2497 Ai: 32 Gen: 17
2498 Sim Starting
2499 Sim over Total pop = 0 Tick Complete = 924
    Fitness = -27.05
2500 Ai: 33 Gen: 17
2501 Sim Starting
2502 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 631.0
2503 Ai: 34 Gen: 17
2504 Sim Starting
2505 Sim over Total pop = 0 Tick Complete = 737
    Fitness = -71.65000000000002
2506 Ai: 35 Gen: 17
2507 Sim Starting
```

```
2508 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 427.70000000000005
2509 Ai: 36 Gen: 17
2510 Sim Starting
2511 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 957.4
2512 Ai: 37 Gen: 17
2513 Sim Starting
2514 Sim over Total pop = 0 Tick Complete = 3135
    Fitness = 641.600000000024
2515 Ai: 38 Gen: 17
2516 Sim Starting
2517 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
2518 Ai: 39 Gen: 17
2519 Sim Starting
2520 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 434.099999999999
2521 Ai: 40 Gen: 17
2522 Sim Starting
2523 Sim over Total pop = 0 Tick Complete = 8019
    Fitness = 1182.200000000003
2524 Ai: 41 Gen: 17
2525 Sim Starting
2526 Sim over Total pop = 0 Tick Complete = 3168
    Fitness = 520.250000000007
2527 Ai: 42 Gen: 17
2528 Sim Starting
2529 Sim over Total pop = 0 Tick Complete = 20724
    Fitness = 1634.549999999922
2530 Ai: 43 Gen: 17
2531 Sim Starting
2532 Sim over Total pop = 0 Tick Complete = 14773
    Fitness = 720.300000000088
2533 Ai: 44 Gen: 17
2534 Sim Starting
2535 Sim over Total pop = 0 Tick Complete = 10032
    Fitness = 830.199999999999
2536 Ai: 45 Gen: 17
2537 Sim Starting
2538 Sim over Total pop = 0 Tick Complete = 5522
    Fitness = 826.4000000000146
2539 Ai: 46 Gen: 17
2540 Sim Starting
```

```
2541 Sim over Total pop = 0 Tick Complete = 4114
    Fitness = 690.0000000000128
2542 Ai: 47 Gen: 17
2543 Sim Starting
2544 Sim over Total pop = 0 Tick Complete = 2398
    Fitness = 322.9999999999994
2545 Ai: 48 Gen: 17
2546 Sim Starting
2547 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
2548 Ai: 0 Gen: 18
2549 Sim Starting
2550 Sim over Total pop = 0 Tick Complete = 2882
    Fitness = 143.75
2551 Ai: 1 Gen: 18
2552 Sim Starting
2553 Sim over Total pop = 0 Tick Complete = 3069
    Fitness = 371.80000000000337
2554 Ai: 2 Gen: 18
2555 Sim Starting
2556 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 133.0
2557 Ai: 3 Gen: 18
2558 Sim Starting
2559 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 96.6999999999999
2560 Ai: 4 Gen: 18
2561 Sim Starting
2562 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 154.6000000000008
2563 Ai: 5 Gen: 18
2564 Sim Starting
2565 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = 476.200000000011
2566 Ai: 6 Gen: 18
2567 Sim Starting
2568 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 921.4000000000058
2569 Ai: 7 Gen: 18
2570 Sim Starting
2571 Sim over Total pop = 0 Tick Complete = 2134
    Fitness = 412.05000000000155
2572 Ai: 8 Gen: 18
2573 Sim Starting
```

```
2574 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 149.5
2575 Ai: 9 Gen: 18
2576 Sim Starting
2577 Sim over Total pop = 0 Tick Complete = 2189
    Fitness = 578.400000000002
2578 Ai: 10 Gen: 18
2579 Sim Starting
2580 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 364.949999999997
2581 Ai: 11 Gen: 18
2582 Sim Starting
2583 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 331.5
2584 Ai: 12 Gen: 18
2585 Sim Starting
2586 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 302.5
2587 Ai: 13 Gen: 18
2588 Sim Starting
2589 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
2590 Ai: 14 Gen: 18
2591 Sim Starting
2592 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 514.5500000000012
2593 Ai: 15 Gen: 18
2594 Sim Starting
2595 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 169.0
2596 Ai: 16 Gen: 18
2597 Sim Starting
2598 Sim over Total pop = 0 Tick Complete = 4301
    Fitness = 312.35
2599 Ai: 17 Gen: 18
2600 Sim Starting
2601 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 435.2000000000033
2602 Ai: 18 Gen: 18
2603 Sim Starting
2604 Sim over Total pop = 0 Tick Complete = 3058
    Fitness = 724.2000000000078
2605 Ai: 19 Gen: 18
2606 Sim Starting
```

```
2607 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 261.5
2608 Ai: 20 Gen: 18
2609 Sim Starting
2610 Sim over Total pop = 0 Tick Complete = 3949
    Fitness = 362.5499999999959
2611 Ai: 21 Gen: 18
2612 Sim Starting
2613 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -78.1000000000005
2614 Ai: 22 Gen: 18
2615 Sim Starting
2616 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 204.80000000000058
2617 Ai: 23 Gen: 18
2618 Sim Starting
2619 Sim over Total pop = 0 Tick Complete = 2233
    Fitness = 386.499999999966
2620 Ai: 24 Gen: 18
2621 Sim Starting
2622 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 187.6000000000008
2623 Ai: 25 Gen: 18
2624 Sim Starting
2625 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 314.0
2626 Ai: 26 Gen: 18
2627 Sim Starting
2628 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 290.5
2629 Ai: 27 Gen: 18
2630 Sim Starting
2631 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 752.200000000002
2632 Ai: 28 Gen: 18
2633 Sim Starting
2634 Sim over Total pop = 0 Tick Complete = 5236
    Fitness = 1020.3500000000115
2635 Ai: 29 Gen: 18
2636 Sim Starting
2637 Sim over Total pop = 0 Tick Complete = 3597
    Fitness = 790.1499999999918
2638 Ai: 30 Gen: 18
2639 Sim Starting
```

```
2640 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = -13.0000000000000075
2641 Ai: 31 Gen: 18
2642 Sim Starting
2643 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 357.0999999999987
2644 Ai: 32 Gen: 18
2645 Sim Starting
2646 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 353.0499999999983
2647 Ai: 33 Gen: 18
2648 Sim Starting
2649 Sim over Total pop = 0 Tick Complete = 37334
    Fitness = 1875.0
2650 Ai: 34 Gen: 18
2651 Sim Starting
2652 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 282.2999999999984
2653 Ai: 35 Gen: 18
2654 Sim Starting
2655 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 575.8000000000005
2656 Ai: 36 Gen: 18
2657 Sim Starting
2658 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 688.05
2659 Ai: 37 Gen: 18
2660 Sim Starting
2661 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
2662 Ai: 38 Gen: 18
2663 Sim Starting
2664 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 166.6999999999993
2665 Ai: 39 Gen: 18
2666 Sim Starting
2667 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
2668 Ai: 40 Gen: 18
2669 Sim Starting
2670 Sim over Total pop = 0 Tick Complete = 12034
    Fitness = 1128.75
2671 Ai: 41 Gen: 18
2672 Sim Starting
```

```
2673 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 347.1500000000002
2674 Ai: 42 Gen: 18
2675 Sim Starting
2676 Sim over Total pop = 0 Tick Complete = 1738
    Fitness = 591.7500000000002
2677 Ai: 43 Gen: 18
2678 Sim Starting
2679 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 573.049999999943
2680 Ai: 44 Gen: 18
2681 Sim Starting
2682 Sim over Total pop = 0 Tick Complete = 7370
    Fitness = 454.1500000000003
2683 Ai: 45 Gen: 18
2684 Sim Starting
2685 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 173.5
2686 Ai: 46 Gen: 18
2687 Sim Starting
2688 Sim over Total pop = 0 Tick Complete = 36113
    Fitness = 2231.500000000146
2689 Ai: 47 Gen: 18
2690 Sim Starting
2691 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -150.4500000000002
2692 Ai: 48 Gen: 18
2693 Sim Starting
2694 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 265.6499999999975
2695 Ai: 49 Gen: 18
2696 Sim Starting
2697 Sim over Total pop = 0 Tick Complete = 6226
    Fitness = 511.799999999985
2698 Ai: 50 Gen: 18
2699 Sim Starting
2700 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 624.749999999966
2701 Ai: 51 Gen: 18
2702 Sim Starting
2703 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 141.2000000000005
2704 Ai: 0 Gen: 19
2705 Sim Starting
```

```
2706 Sim over Total pop = 0 Tick Complete = 13596
    Fitness = 985.2500000000211
2707 Ai: 1 Gen: 19
2708 Sim Starting
2709 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 314.5499999999998
2710 Ai: 2 Gen: 19
2711 Sim Starting
2712 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 348.94999999999936
2713 Ai: 3 Gen: 19
2714 Sim Starting
2715 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 16.39999999999956
2716 Ai: 4 Gen: 19
2717 Sim Starting
2718 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 26.450000000000003
2719 Ai: 5 Gen: 19
2720 Sim Starting
2721 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 305.65000000000015
2722 Ai: 6 Gen: 19
2723 Sim Starting
2724 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -163.0
2725 Ai: 7 Gen: 19
2726 Sim Starting
2727 Sim over Total pop = 0 Tick Complete = 5511
    Fitness = 889.8499999999931
2728 Ai: 8 Gen: 19
2729 Sim Starting
2730 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 433.7000000000005
2731 Ai: 9 Gen: 19
2732 Sim Starting
2733 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 322.0
2734 Ai: 10 Gen: 19
2735 Sim Starting
2736 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 726.0499999999997
2737 Ai: 11 Gen: 19
2738 Sim Starting
```

```
2739 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 523.15
2740 Ai: 12 Gen: 19
2741 Sim Starting
2742 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 328.400000000015
2743 Ai: 13 Gen: 19
2744 Sim Starting
2745 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 554.350000000005
2746 Ai: 14 Gen: 19
2747 Sim Starting
2748 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
2749 Ai: 15 Gen: 19
2750 Sim Starting
2751 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
2752 Ai: 16 Gen: 19
2753 Sim Starting
2754 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 476.499999999999
2755 Ai: 17 Gen: 19
2756 Sim Starting
2757 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 272.050000000003
2758 Ai: 18 Gen: 19
2759 Sim Starting
2760 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 189.5499999999998
2761 Ai: 19 Gen: 19
2762 Sim Starting
2763 Sim over Total pop = 0 Tick Complete = 2035
    Fitness = 574.050000000003
2764 Ai: 20 Gen: 19
2765 Sim Starting
2766 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 176.700000000005
2767 Ai: 21 Gen: 19
2768 Sim Starting
2769 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 653.200000000008
2770 Ai: 22 Gen: 19
2771 Sim Starting
```

```
2772 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 293.9
2773 Ai: 23 Gen: 19
2774 Sim Starting
2775 Sim over Total pop = 0 Tick Complete = 4004
    Fitness = 704.900000000007
2776 Ai: 24 Gen: 19
2777 Sim Starting
2778 Sim over Total pop = 0 Tick Complete = 2332
    Fitness = 283.75
2779 Ai: 25 Gen: 19
2780 Sim Starting
2781 Sim over Total pop = 0 Tick Complete = 7557
    Fitness = 638.850000000002
2782 Ai: 26 Gen: 19
2783 Sim Starting
2784 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 241.5
2785 Ai: 27 Gen: 19
2786 Sim Starting
2787 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 210.5000000000026
2788 Ai: 28 Gen: 19
2789 Sim Starting
2790 Sim over Total pop = 0 Tick Complete = 957
    Fitness = -90.3000000000001
2791 Ai: 29 Gen: 19
2792 Sim Starting
2793 Sim over Total pop = 0 Tick Complete = 2937
    Fitness = 865.100000000021
2794 Ai: 30 Gen: 19
2795 Sim Starting
2796 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 304.35
2797 Ai: 31 Gen: 19
2798 Sim Starting
2799 Sim over Total pop = 0 Tick Complete = 3256
    Fitness = 597.7500000000023
2800 Ai: 32 Gen: 19
2801 Sim Starting
2802 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 247.7999999999995
2803 Ai: 33 Gen: 19
2804 Sim Starting
```

```
2805 Sim over Total pop = 0 Tick Complete = 1815
    Fitness = 397.2499999999993
2806 Ai: 34 Gen: 19
2807 Sim Starting
2808 Sim over Total pop = 0 Tick Complete = 3223
    Fitness = 523.5000000000005
2809 Ai: 35 Gen: 19
2810 Sim Starting
2811 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 208.0
2812 Ai: 36 Gen: 19
2813 Sim Starting
2814 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 294.0
2815 Ai: 37 Gen: 19
2816 Sim Starting
2817 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 173.35
2818 Ai: 38 Gen: 19
2819 Sim Starting
2820 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 152.6
2821 Ai: 39 Gen: 19
2822 Sim Starting
2823 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 515.449999999999
2824 Ai: 40 Gen: 19
2825 Sim Starting
2826 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 635.8000000000006
2827 Ai: 41 Gen: 19
2828 Sim Starting
2829 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 139.5
2830 Ai: 42 Gen: 19
2831 Sim Starting
2832 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 329.9500000000016
2833 Ai: 43 Gen: 19
2834 Sim Starting
2835 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 300.9
2836 Ai: 44 Gen: 19
2837 Sim Starting
```

```
2838 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 140.64999999999995
2839 Ai: 45 Gen: 19
2840 Sim Starting
2841 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 182.0
2842 Ai: 46 Gen: 19
2843 Sim Starting
2844 Sim over Total pop = 0 Tick Complete = 4213
    Fitness = 334.199999999984
2845 Ai: 47 Gen: 19
2846 Sim Starting
2847 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 254.650000000002
2848 Ai: 48 Gen: 19
2849 Sim Starting
2850 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 289.999999999955
2851 Ai: 49 Gen: 19
2852 Sim Starting
2853 Sim over Total pop = 0 Tick Complete = 1958
    Fitness = 760.399999999999
2854 Ai: 50 Gen: 19
2855 Sim Starting
2856 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
2857 Ai: 0 Gen: 20
2858 Sim Starting
2859 Sim over Total pop = 0 Tick Complete = 12694
    Fitness = 939.450000000215
2860 Ai: 1 Gen: 20
2861 Sim Starting
2862 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = -97.4
2863 Ai: 2 Gen: 20
2864 Sim Starting
2865 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 229.2000000000005
2866 Ai: 3 Gen: 20
2867 Sim Starting
2868 Sim over Total pop = 0 Tick Complete = 2904
    Fitness = 314.9000000000003
2869 Ai: 4 Gen: 20
2870 Sim Starting
```

```
2871 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
2872 Ai: 5 Gen: 20
2873 Sim Starting
2874 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 413.6999999999953
2875 Ai: 6 Gen: 20
2876 Sim Starting
2877 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 188.7500000000006
2878 Ai: 7 Gen: 20
2879 Sim Starting
2880 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 487.499999999998
2881 Ai: 8 Gen: 20
2882 Sim Starting
2883 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 215.75
2884 Ai: 9 Gen: 20
2885 Sim Starting
2886 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 355.2499999999955
2887 Ai: 10 Gen: 20
2888 Sim Starting
2889 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 573.5999999999988
2890 Ai: 11 Gen: 20
2891 Sim Starting
2892 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 173.1000000000002
2893 Ai: 12 Gen: 20
2894 Sim Starting
2895 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 297.0500000000007
2896 Ai: 13 Gen: 20
2897 Sim Starting
2898 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 540.3000000000003
2899 Ai: 14 Gen: 20
2900 Sim Starting
2901 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 219.5
2902 Ai: 15 Gen: 20
2903 Sim Starting
```

```
2904 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 595.7000000000012
2905 Ai: 16 Gen: 20
2906 Sim Starting
2907 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 466.1500000000003
2908 Ai: 17 Gen: 20
2909 Sim Starting
2910 Sim over Total pop = 0 Tick Complete = 2013
    Fitness = 380.7499999999983
2911 Ai: 18 Gen: 20
2912 Sim Starting
2913 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 218.85
2914 Ai: 19 Gen: 20
2915 Sim Starting
2916 Sim over Total pop = 0 Tick Complete = 3619
    Fitness = 404.2500000000023
2917 Ai: 20 Gen: 20
2918 Sim Starting
2919 Sim over Total pop = 0 Tick Complete = 2948
    Fitness = -8.0
2920 Ai: 21 Gen: 20
2921 Sim Starting
2922 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -149.95
2923 Ai: 22 Gen: 20
2924 Sim Starting
2925 Sim over Total pop = 0 Tick Complete = 10054
    Fitness = 784.499999999808
2926 Ai: 23 Gen: 20
2927 Sim Starting
2928 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
2929 Ai: 24 Gen: 20
2930 Sim Starting
2931 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 538.8500000000006
2932 Ai: 25 Gen: 20
2933 Sim Starting
2934 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
2935 Ai: 26 Gen: 20
2936 Sim Starting
```

```
2937 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
2938 Ai: 27 Gen: 20
2939 Sim Starting
2940 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
2941 Ai: 28 Gen: 20
2942 Sim Starting
2943 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 342.3000000000064
2944 Ai: 29 Gen: 20
2945 Sim Starting
2946 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 296.5
2947 Ai: 30 Gen: 20
2948 Sim Starting
2949 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 283.449999999999
2950 Ai: 31 Gen: 20
2951 Sim Starting
2952 Sim over Total pop = 0 Tick Complete = 10241
    Fitness = 825.3000000000093
2953 Ai: 32 Gen: 20
2954 Sim Starting
2955 Sim over Total pop = 0 Tick Complete = 2409
    Fitness = 524.8499999999964
2956 Ai: 33 Gen: 20
2957 Sim Starting
2958 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = -78.55
2959 Ai: 34 Gen: 20
2960 Sim Starting
2961 Sim over Total pop = 0 Tick Complete = 8976
    Fitness = 949.0500000000254
2962 Ai: 35 Gen: 20
2963 Sim Starting
2964 Sim over Total pop = 0 Tick Complete = 5962
    Fitness = 952.9999999999891
2965 Ai: 36 Gen: 20
2966 Sim Starting
2967 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 724.0499999999996
2968 Ai: 37 Gen: 20
2969 Sim Starting
```

```
2970 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 162.7000000000004
2971 Ai: 38 Gen: 20
2972 Sim Starting
2973 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 307.7000000000005
2974 Ai: 39 Gen: 20
2975 Sim Starting
2976 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -184.1
2977 Ai: 40 Gen: 20
2978 Sim Starting
2979 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 426.35000000000036
2980 Ai: 41 Gen: 20
2981 Sim Starting
2982 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 188.0499999999995
2983 Ai: 42 Gen: 20
2984 Sim Starting
2985 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -162.9499999999996
2986 Ai: 43 Gen: 20
2987 Sim Starting
2988 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 194.0000000000014
2989 Ai: 44 Gen: 20
2990 Sim Starting
2991 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 202.9999999999994
2992 Ai: 45 Gen: 20
2993 Sim Starting
2994 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -123.4000000000003
2995 Ai: 46 Gen: 20
2996 Sim Starting
2997 Sim over Total pop = 0 Tick Complete = 1562
    Fitness = 378.5000000000002
2998 Ai: 47 Gen: 20
2999 Sim Starting
3000 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 481.14999999999935
3001 Ai: 48 Gen: 20
3002 Sim Starting
```

```
3003 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
3004 Ai: 0 Gen: 21
3005 Sim Starting
3006 Sim over Total pop = 0 Tick Complete = 2871
    Fitness = 546.4500000000015
3007 Ai: 1 Gen: 21
3008 Sim Starting
3009 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 280.4499999999993
3010 Ai: 2 Gen: 21
3011 Sim Starting
3012 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 151.5
3013 Ai: 3 Gen: 21
3014 Sim Starting
3015 Sim over Total pop = 0 Tick Complete = 2090
    Fitness = 169.199999999997
3016 Ai: 4 Gen: 21
3017 Sim Starting
3018 Sim over Total pop = 0 Tick Complete = 3080
    Fitness = 388.750000000001
3019 Ai: 5 Gen: 21
3020 Sim Starting
3021 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 500.300000000004
3022 Ai: 6 Gen: 21
3023 Sim Starting
3024 Sim over Total pop = 0 Tick Complete = 3069
    Fitness = 339.250000000002
3025 Ai: 7 Gen: 21
3026 Sim Starting
3027 Sim over Total pop = 0 Tick Complete = 3135
    Fitness = 504.499999999977
3028 Ai: 8 Gen: 21
3029 Sim Starting
3030 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 348.500000000006
3031 Ai: 9 Gen: 21
3032 Sim Starting
3033 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 217.8000000000058
3034 Ai: 10 Gen: 21
3035 Sim Starting
```

```
3036 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -176.0
3037 Ai: 11 Gen: 21
3038 Sim Starting
3039 Sim over Total pop = 0 Tick Complete = 7579
    Fitness = 805.649999999993
3040 Ai: 12 Gen: 21
3041 Sim Starting
3042 Sim over Total pop = 0 Tick Complete = 5357
    Fitness = 228.2000000000152
3043 Ai: 13 Gen: 21
3044 Sim Starting
3045 Sim over Total pop = 0 Tick Complete = 3069
    Fitness = 356.8499999999974
3046 Ai: 14 Gen: 21
3047 Sim Starting
3048 Sim over Total pop = 0 Tick Complete = 10384
    Fitness = 1242.650000000001
3049 Ai: 15 Gen: 21
3050 Sim Starting
3051 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 115.3000000000007
3052 Ai: 16 Gen: 21
3053 Sim Starting
3054 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 393.6000000000065
3055 Ai: 17 Gen: 21
3056 Sim Starting
3057 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 759.2000000000031
3058 Ai: 18 Gen: 21
3059 Sim Starting
3060 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 320.0
3061 Ai: 19 Gen: 21
3062 Sim Starting
3063 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 336.1000000000014
3064 Ai: 20 Gen: 21
3065 Sim Starting
3066 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 2.449999999999957
3067 Ai: 21 Gen: 21
3068 Sim Starting
```

```
3069 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 202.89999999999998
3070 Ai: 22 Gen: 21
3071 Sim Starting
3072 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 269.54999999999984
3073 Ai: 23 Gen: 21
3074 Sim Starting
3075 Sim over Total pop = 0 Tick Complete = 11594
    Fitness = 876.900000000227
3076 Ai: 24 Gen: 21
3077 Sim Starting
3078 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 286.0
3079 Ai: 25 Gen: 21
3080 Sim Starting
3081 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 205.0
3082 Ai: 26 Gen: 21
3083 Sim Starting
3084 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 711.100000000001
3085 Ai: 27 Gen: 21
3086 Sim Starting
3087 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 128.3999999999984
3088 Ai: 28 Gen: 21
3089 Sim Starting
3090 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 287.8499999999997
3091 Ai: 29 Gen: 21
3092 Sim Starting
3093 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 161.0
3094 Ai: 30 Gen: 21
3095 Sim Starting
3096 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 243.0
3097 Ai: 31 Gen: 21
3098 Sim Starting
3099 Sim over Total pop = 0 Tick Complete = 4928
    Fitness = 1199.549999999997
3100 Ai: 32 Gen: 21
3101 Sim Starting
```

```
3102 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 190.5
3103 Ai: 33 Gen: 21
3104 Sim Starting
3105 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 314.6500000000002
3106 Ai: 34 Gen: 21
3107 Sim Starting
3108 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 456.55000000000433
3109 Ai: 35 Gen: 21
3110 Sim Starting
3111 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 264.15
3112 Ai: 36 Gen: 21
3113 Sim Starting
3114 Sim over Total pop = 0 Tick Complete = 5918
    Fitness = 224.1999999999828
3115 Ai: 37 Gen: 21
3116 Sim Starting
3117 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = -36.55000000000004
3118 Ai: 38 Gen: 21
3119 Sim Starting
3120 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 24.75
3121 Ai: 39 Gen: 21
3122 Sim Starting
3123 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
3124 Ai: 40 Gen: 21
3125 Sim Starting
3126 Sim over Total pop = 0 Tick Complete = 7337
    Fitness = 463.700000000042
3127 Ai: 41 Gen: 21
3128 Sim Starting
3129 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 115.8499999999991
3130 Ai: 42 Gen: 21
3131 Sim Starting
3132 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
3133 Ai: 43 Gen: 21
3134 Sim Starting
```

```
3135 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 219.45
3136 Ai: 44 Gen: 21
3137 Sim Starting
3138 Sim over Total pop = 0 Tick Complete = 16005
    Fitness = 1071.8000000000316
3139 Ai: 45 Gen: 21
3140 Sim Starting
3141 Sim over Total pop = 0 Tick Complete = 3894
    Fitness = 499.5999999999854
3142 Ai: 46 Gen: 21
3143 Sim Starting
3144 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 453.800000000001
3145 Ai: 47 Gen: 21
3146 Sim Starting
3147 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 437.249999999991
3148 Ai: 48 Gen: 21
3149 Sim Starting
3150 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 545.400000000007
3151 Ai: 0 Gen: 22
3152 Sim Starting
3153 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = -88.7000000000002
3154 Ai: 1 Gen: 22
3155 Sim Starting
3156 Sim over Total pop = 0 Tick Complete = 737
    Fitness = -40.099999999994
3157 Ai: 2 Gen: 22
3158 Sim Starting
3159 Sim over Total pop = 0 Tick Complete = 858
    Fitness = -134.6499999999998
3160 Ai: 3 Gen: 22
3161 Sim Starting
3162 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 277.85
3163 Ai: 4 Gen: 22
3164 Sim Starting
3165 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 311.1499999999975
3166 Ai: 5 Gen: 22
3167 Sim Starting
```

```
3168 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = -89.29999999999993
3169 Ai: 6 Gen: 22
3170 Sim Starting
3171 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 319.9
3172 Ai: 7 Gen: 22
3173 Sim Starting
3174 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 314.799999999996
3175 Ai: 8 Gen: 22
3176 Sim Starting
3177 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 490.300000000003
3178 Ai: 9 Gen: 22
3179 Sim Starting
3180 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 454.299999999999
3181 Ai: 10 Gen: 22
3182 Sim Starting
3183 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 254.100000000007
3184 Ai: 11 Gen: 22
3185 Sim Starting
3186 Sim over Total pop = 0 Tick Complete = 3773
    Fitness = 975.449999999997
3187 Ai: 12 Gen: 22
3188 Sim Starting
3189 Sim over Total pop = 0 Tick Complete = 770
    Fitness = -144.8
3190 Ai: 13 Gen: 22
3191 Sim Starting
3192 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 573.900000000032
3193 Ai: 14 Gen: 22
3194 Sim Starting
3195 Sim over Total pop = 0 Tick Complete = 4400
    Fitness = 1055.0
3196 Ai: 15 Gen: 22
3197 Sim Starting
3198 Sim over Total pop = 0 Tick Complete = 6556
    Fitness = 223.25000000000003
3199 Ai: 16 Gen: 22
3200 Sim Starting
```

```
3201 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
3202 Ai: 17 Gen: 22
3203 Sim Starting
3204 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -189.0
3205 Ai: 18 Gen: 22
3206 Sim Starting
3207 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
3208 Ai: 19 Gen: 22
3209 Sim Starting
3210 Sim over Total pop = 0 Tick Complete = 3542
    Fitness = 415.95
3211 Ai: 20 Gen: 22
3212 Sim Starting
3213 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
3214 Ai: 21 Gen: 22
3215 Sim Starting
3216 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 377.5
3217 Ai: 22 Gen: 22
3218 Sim Starting
3219 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 163.0
3220 Ai: 23 Gen: 22
3221 Sim Starting
3222 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
3223 Ai: 24 Gen: 22
3224 Sim Starting
3225 Sim over Total pop = 0 Tick Complete = 2013
    Fitness = 444.300000000004
3226 Ai: 25 Gen: 22
3227 Sim Starting
3228 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 435.150000000008
3229 Ai: 26 Gen: 22
3230 Sim Starting
3231 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 518.099999999998
3232 Ai: 27 Gen: 22
3233 Sim Starting
```

```
3234 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 317.70000000000124
3235 Ai: 28 Gen: 22
3236 Sim Starting
3237 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
3238 Ai: 29 Gen: 22
3239 Sim Starting
3240 Sim over Total pop = 0 Tick Complete = 2112
    Fitness = 415.80000000000325
3241 Ai: 30 Gen: 22
3242 Sim Starting
3243 Sim over Total pop = 0 Tick Complete = 2926
    Fitness = 339.3999999999985
3244 Ai: 31 Gen: 22
3245 Sim Starting
3246 Sim over Total pop = 0 Tick Complete = 4180
    Fitness = 395.2499999999962
3247 Ai: 32 Gen: 22
3248 Sim Starting
3249 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 617.3500000000007
3250 Ai: 33 Gen: 22
3251 Sim Starting
3252 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 164.0
3253 Ai: 34 Gen: 22
3254 Sim Starting
3255 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 349.5
3256 Ai: 35 Gen: 22
3257 Sim Starting
3258 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 343.25
3259 Ai: 36 Gen: 22
3260 Sim Starting
3261 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 131.0999999999994
3262 Ai: 37 Gen: 22
3263 Sim Starting
3264 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = -115.0999999999997
3265 Ai: 38 Gen: 22
3266 Sim Starting
```

```
3267 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 199.65000000000109
3268 Ai: 39 Gen: 22
3269 Sim Starting
3270 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -155.50000000000003
3271 Ai: 40 Gen: 22
3272 Sim Starting
3273 Sim over Total pop = 0 Tick Complete = 6325
    Fitness = 288.3499999999975
3274 Ai: 41 Gen: 22
3275 Sim Starting
3276 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 471.0
3277 Ai: 42 Gen: 22
3278 Sim Starting
3279 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
3280 Ai: 43 Gen: 22
3281 Sim Starting
3282 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
3283 Ai: 44 Gen: 22
3284 Sim Starting
3285 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3286 Ai: 45 Gen: 22
3287 Sim Starting
3288 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 223.6000000000002
3289 Ai: 46 Gen: 22
3290 Sim Starting
3291 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 257.5
3292 Ai: 47 Gen: 22
3293 Sim Starting
3294 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 426.8999999999992
3295 Ai: 48 Gen: 22
3296 Sim Starting
3297 Sim over Total pop = 0 Tick Complete = 847
    Fitness = -162.7499999999986
3298 Ai: 49 Gen: 22
3299 Sim Starting
```

```
3300 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 6.599999999999987
3301 Ai: 50 Gen: 22
3302 Sim Starting
3303 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 529.6500000000002
3304 Ai: 0 Gen: 23
3305 Sim Starting
3306 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -44.04999999999955
3307 Ai: 1 Gen: 23
3308 Sim Starting
3309 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -184.0
3310 Ai: 2 Gen: 23
3311 Sim Starting
3312 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
3313 Ai: 3 Gen: 23
3314 Sim Starting
3315 Sim over Total pop = 0 Tick Complete = 7953
    Fitness = 455.8999999999949
3316 Ai: 4 Gen: 23
3317 Sim Starting
3318 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3319 Ai: 5 Gen: 23
3320 Sim Starting
3321 Sim over Total pop = 0 Tick Complete = 5137
    Fitness = 382.8
3322 Ai: 6 Gen: 23
3323 Sim Starting
3324 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 243.8499999999945
3325 Ai: 7 Gen: 23
3326 Sim Starting
3327 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 118.25
3328 Ai: 8 Gen: 23
3329 Sim Starting
3330 Sim over Total pop = 0 Tick Complete = 48884
    Fitness = 5479.9500000004655
3331 Ai: 9 Gen: 23
3332 Sim Starting
```

```
3333 Sim over Total pop = 0 Tick Complete = 2134
      Fitness = 161.64999999999978
3334 Ai: 10 Gen: 23
3335 Sim Starting
3336 Sim over Total pop = 0 Tick Complete = 1133
      Fitness = 555.499999999995
3337 Ai: 11 Gen: 23
3338 Sim Starting
3339 Sim over Total pop = 0 Tick Complete = 1199
      Fitness = 338.100000000005
3340 Ai: 12 Gen: 23
3341 Sim Starting
3342 Sim over Total pop = 0 Tick Complete = 2838
      Fitness = 130.6999999999996
3343 Ai: 13 Gen: 23
3344 Sim Starting
3345 Sim over Total pop = 0 Tick Complete = 1595
      Fitness = 166.199999999993
3346 Ai: 14 Gen: 23
3347 Sim Starting
3348 Sim over Total pop = 0 Tick Complete = 1133
      Fitness = 94.90000000000008
3349 Ai: 15 Gen: 23
3350 Sim Starting
3351 Sim over Total pop = 0 Tick Complete = 5137
      Fitness = 521.9500000000005
3352 Ai: 16 Gen: 23
3353 Sim Starting
3354 Sim over Total pop = 0 Tick Complete = 605
      Fitness = 157.5
3355 Ai: 17 Gen: 23
3356 Sim Starting
3357 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 251.0
3358 Ai: 18 Gen: 23
3359 Sim Starting
3360 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 383.0
3361 Ai: 19 Gen: 23
3362 Sim Starting
3363 Sim over Total pop = 0 Tick Complete = 858
      Fitness = 422.0
3364 Ai: 20 Gen: 23
3365 Sim Starting
```

```
3366 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 307.5
3367 Ai: 21 Gen: 23
3368 Sim Starting
3369 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
3370 Ai: 22 Gen: 23
3371 Sim Starting
3372 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 203.5
3373 Ai: 23 Gen: 23
3374 Sim Starting
3375 Sim over Total pop = 0 Tick Complete = 2849
    Fitness = 390.4999999999955
3376 Ai: 24 Gen: 23
3377 Sim Starting
3378 Sim over Total pop = 0 Tick Complete = 4169
    Fitness = 432.400000000001
3379 Ai: 25 Gen: 23
3380 Sim Starting
3381 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 274.599999999999
3382 Ai: 26 Gen: 23
3383 Sim Starting
3384 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 287.5
3385 Ai: 27 Gen: 23
3386 Sim Starting
3387 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 158.6999999999987
3388 Ai: 28 Gen: 23
3389 Sim Starting
3390 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 168.5
3391 Ai: 29 Gen: 23
3392 Sim Starting
3393 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 280.25
3394 Ai: 30 Gen: 23
3395 Sim Starting
3396 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 266.9500000000002
3397 Ai: 31 Gen: 23
3398 Sim Starting
```

```
3399 Sim over Total pop = 0 Tick Complete = 3168
    Fitness = 698.8999999999942
3400 Ai: 32 Gen: 23
3401 Sim Starting
3402 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 510.1500000000055
3403 Ai: 33 Gen: 23
3404 Sim Starting
3405 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 165.8
3406 Ai: 34 Gen: 23
3407 Sim Starting
3408 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 636.3000000000015
3409 Ai: 35 Gen: 23
3410 Sim Starting
3411 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 289.5
3412 Ai: 36 Gen: 23
3413 Sim Starting
3414 Sim over Total pop = 0 Tick Complete = 3982
    Fitness = 495.800000000004
3415 Ai: 37 Gen: 23
3416 Sim Starting
3417 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 27.5
3418 Ai: 38 Gen: 23
3419 Sim Starting
3420 Sim over Total pop = 0 Tick Complete = 4356
    Fitness = 556.350000000001
3421 Ai: 39 Gen: 23
3422 Sim Starting
3423 Sim over Total pop = 0 Tick Complete = 4444
    Fitness = 554.8500000000075
3424 Ai: 40 Gen: 23
3425 Sim Starting
3426 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 217.8500000000002
3427 Ai: 41 Gen: 23
3428 Sim Starting
3429 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 282.8499999999957
3430 Ai: 42 Gen: 23
3431 Sim Starting
```

```
3432 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 165.20000000000002
3433 Ai: 43 Gen: 23
3434 Sim Starting
3435 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 364.4499999999998
3436 Ai: 44 Gen: 23
3437 Sim Starting
3438 Sim over Total pop = 0 Tick Complete = 4499
    Fitness = 512.8999999999974
3439 Ai: 45 Gen: 23
3440 Sim Starting
3441 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 544.0000000000024
3442 Ai: 46 Gen: 23
3443 Sim Starting
3444 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 292.7500000000006
3445 Ai: 47 Gen: 23
3446 Sim Starting
3447 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 172.25
3448 Ai: 48 Gen: 23
3449 Sim Starting
3450 Sim over Total pop = 0 Tick Complete = 8118
    Fitness = 613.2499999999957
3451 Ai: 49 Gen: 23
3452 Sim Starting
3453 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 276.45
3454 Ai: 0 Gen: 24
3455 Sim Starting
3456 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 558.2499999999997
3457 Ai: 1 Gen: 24
3458 Sim Starting
3459 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 320.5
3460 Ai: 2 Gen: 24
3461 Sim Starting
3462 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 382.0
3463 Ai: 3 Gen: 24
3464 Sim Starting
```

```
3465 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 276.94999999999993
3466 Ai: 4 Gen: 24
3467 Sim Starting
3468 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 234.8999999999998
3469 Ai: 5 Gen: 24
3470 Sim Starting
3471 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 465.3499999999999
3472 Ai: 6 Gen: 24
3473 Sim Starting
3474 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
3475 Ai: 7 Gen: 24
3476 Sim Starting
3477 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
3478 Ai: 8 Gen: 24
3479 Sim Starting
3480 Sim over Total pop = 0 Tick Complete = 8888
    Fitness = 845.6499999999999
3481 Ai: 9 Gen: 24
3482 Sim Starting
3483 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 514.2999999999998
3484 Ai: 10 Gen: 24
3485 Sim Starting
3486 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 154.8999999999998
3487 Ai: 11 Gen: 24
3488 Sim Starting
3489 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 278.6000000000005
3490 Ai: 12 Gen: 24
3491 Sim Starting
3492 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
3493 Ai: 13 Gen: 24
3494 Sim Starting
3495 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
3496 Ai: 14 Gen: 24
3497 Sim Starting
```

```
3498 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
3499 Ai: 15 Gen: 24
3500 Sim Starting
3501 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 237.05000000000013
3502 Ai: 16 Gen: 24
3503 Sim Starting
3504 Sim over Total pop = 0 Tick Complete = 5577
    Fitness = 646.6000000000065
3505 Ai: 17 Gen: 24
3506 Sim Starting
3507 Sim over Total pop = 0 Tick Complete = 4862
    Fitness = 565.7500000000044
3508 Ai: 18 Gen: 24
3509 Sim Starting
3510 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 533.6500000000016
3511 Ai: 19 Gen: 24
3512 Sim Starting
3513 Sim over Total pop = 0 Tick Complete = 2420
    Fitness = 528.9000000000017
3514 Ai: 20 Gen: 24
3515 Sim Starting
3516 Sim over Total pop = 0 Tick Complete = 1276
    Fitness = 243.1000000000007
3517 Ai: 21 Gen: 24
3518 Sim Starting
3519 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 409.5000000000097
3520 Ai: 22 Gen: 24
3521 Sim Starting
3522 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 200.2000000000067
3523 Ai: 23 Gen: 24
3524 Sim Starting
3525 Sim over Total pop = 0 Tick Complete = 12463
    Fitness = 747.2499999999999
3526 Ai: 24 Gen: 24
3527 Sim Starting
3528 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 110.85000000000002
3529 Ai: 25 Gen: 24
3530 Sim Starting
```

```
3531 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 74.2499999999999
3532 Ai: 26 Gen: 24
3533 Sim Starting
3534 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 205.8000000000004
3535 Ai: 27 Gen: 24
3536 Sim Starting
3537 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 308.1
3538 Ai: 28 Gen: 24
3539 Sim Starting
3540 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 427.999999999994
3541 Ai: 29 Gen: 24
3542 Sim Starting
3543 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 420.699999999997
3544 Ai: 30 Gen: 24
3545 Sim Starting
3546 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 131.0999999999982
3547 Ai: 31 Gen: 24
3548 Sim Starting
3549 Sim over Total pop = 0 Tick Complete = 2475
    Fitness = 875.299999999964
3550 Ai: 32 Gen: 24
3551 Sim Starting
3552 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 548.199999999992
3553 Ai: 33 Gen: 24
3554 Sim Starting
3555 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 847.650000000012
3556 Ai: 34 Gen: 24
3557 Sim Starting
3558 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 200.600000000003
3559 Ai: 35 Gen: 24
3560 Sim Starting
3561 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 383.099999999999
3562 Ai: 36 Gen: 24
3563 Sim Starting
```

```
3564 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 426.299999999999
3565 Ai: 37 Gen: 24
3566 Sim Starting
3567 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 190.5999999999968
3568 Ai: 38 Gen: 24
3569 Sim Starting
3570 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 206.6499999999986
3571 Ai: 39 Gen: 24
3572 Sim Starting
3573 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 378.0499999999944
3574 Ai: 40 Gen: 24
3575 Sim Starting
3576 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 259.0
3577 Ai: 41 Gen: 24
3578 Sim Starting
3579 Sim over Total pop = 0 Tick Complete = 7843
    Fitness = 860.25
3580 Ai: 42 Gen: 24
3581 Sim Starting
3582 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 179.6500000000001
3583 Ai: 43 Gen: 24
3584 Sim Starting
3585 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
3586 Ai: 44 Gen: 24
3587 Sim Starting
3588 Sim over Total pop = 0 Tick Complete = 3729
    Fitness = 376.8000000000007
3589 Ai: 45 Gen: 24
3590 Sim Starting
3591 Sim over Total pop = 0 Tick Complete = 4455
    Fitness = 719.249999999847
3592 Ai: 46 Gen: 24
3593 Sim Starting
3594 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -141.05
3595 Ai: 47 Gen: 24
3596 Sim Starting
```

```
3597 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 691.8499999999905
3598 Ai: 48 Gen: 24
3599 Sim Starting
3600 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 13.24999999999801
3601 Ai: 49 Gen: 24
3602 Sim Starting
3603 Sim over Total pop = 0 Tick Complete = 4169
    Fitness = -21.6
3604 Ai: 0 Gen: 25
3605 Sim Starting
3606 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
3607 Ai: 1 Gen: 25
3608 Sim Starting
3609 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 382.2499999999784
3610 Ai: 2 Gen: 25
3611 Sim Starting
3612 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 134.55
3613 Ai: 3 Gen: 25
3614 Sim Starting
3615 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 269.20000000000005
3616 Ai: 4 Gen: 25
3617 Sim Starting
3618 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 93.10000000000007
3619 Ai: 5 Gen: 25
3620 Sim Starting
3621 Sim over Total pop = 0 Tick Complete = 2508
    Fitness = 704.1500000000052
3622 Ai: 6 Gen: 25
3623 Sim Starting
3624 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 504.3000000000086
3625 Ai: 7 Gen: 25
3626 Sim Starting
3627 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 540.1999999999991
3628 Ai: 8 Gen: 25
3629 Sim Starting
```

```
3630 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 142.80000000000018
3631 Ai: 9 Gen: 25
3632 Sim Starting
3633 Sim over Total pop = 0 Tick Complete = 2288
    Fitness = 1041.400000000004
3634 Ai: 10 Gen: 25
3635 Sim Starting
3636 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 223.05
3637 Ai: 11 Gen: 25
3638 Sim Starting
3639 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 29.70000000000053
3640 Ai: 12 Gen: 25
3641 Sim Starting
3642 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 399.0
3643 Ai: 13 Gen: 25
3644 Sim Starting
3645 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
3646 Ai: 14 Gen: 25
3647 Sim Starting
3648 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 340.5
3649 Ai: 15 Gen: 25
3650 Sim Starting
3651 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 549.649999999994
3652 Ai: 16 Gen: 25
3653 Sim Starting
3654 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3655 Ai: 17 Gen: 25
3656 Sim Starting
3657 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 241.0
3658 Ai: 18 Gen: 25
3659 Sim Starting
3660 Sim over Total pop = 0 Tick Complete = 3872
    Fitness = 286.099999999995
3661 Ai: 19 Gen: 25
3662 Sim Starting
```

```
3663 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 191.95000000000005
3664 Ai: 20 Gen: 25
3665 Sim Starting
3666 Sim over Total pop = 0 Tick Complete = 4433
    Fitness = 577.8500000000013
3667 Ai: 21 Gen: 25
3668 Sim Starting
3669 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 229.6999999999982
3670 Ai: 22 Gen: 25
3671 Sim Starting
3672 Sim over Total pop = 0 Tick Complete = 3113
    Fitness = 442.499999999997
3673 Ai: 23 Gen: 25
3674 Sim Starting
3675 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 416.1499999999975
3676 Ai: 24 Gen: 25
3677 Sim Starting
3678 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 156.0
3679 Ai: 25 Gen: 25
3680 Sim Starting
3681 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 430.2999999999995
3682 Ai: 26 Gen: 25
3683 Sim Starting
3684 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 400.999999999994
3685 Ai: 27 Gen: 25
3686 Sim Starting
3687 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 282.2499999999994
3688 Ai: 28 Gen: 25
3689 Sim Starting
3690 Sim over Total pop = 0 Tick Complete = 3916
    Fitness = 538.8500000000073
3691 Ai: 29 Gen: 25
3692 Sim Starting
3693 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 386.8499999999996
3694 Ai: 30 Gen: 25
3695 Sim Starting
```

```
3696 Sim over Total pop = 0 Tick Complete = 1837
    Fitness = 209.54999999999944
3697 Ai: 31 Gen: 25
3698 Sim Starting
3699 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -12.250000000000021
3700 Ai: 32 Gen: 25
3701 Sim Starting
3702 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 420.3499999999985
3703 Ai: 33 Gen: 25
3704 Sim Starting
3705 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 829.749999999998
3706 Ai: 34 Gen: 25
3707 Sim Starting
3708 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 409.9999999999966
3709 Ai: 35 Gen: 25
3710 Sim Starting
3711 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 345.25
3712 Ai: 36 Gen: 25
3713 Sim Starting
3714 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
3715 Ai: 37 Gen: 25
3716 Sim Starting
3717 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 547.899999999993
3718 Ai: 38 Gen: 25
3719 Sim Starting
3720 Sim over Total pop = 0 Tick Complete = 6600
    Fitness = 242.5
3721 Ai: 39 Gen: 25
3722 Sim Starting
3723 Sim over Total pop = 0 Tick Complete = 9317
    Fitness = 1175.649999999996
3724 Ai: 40 Gen: 25
3725 Sim Starting
3726 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 490.449999999998
3727 Ai: 41 Gen: 25
3728 Sim Starting
```

```
3729 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
3730 Ai: 42 Gen: 25
3731 Sim Starting
3732 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 157.3999999999998
3733 Ai: 43 Gen: 25
3734 Sim Starting
3735 Sim over Total pop = 0 Tick Complete = 539
    Fitness = -193.3
3736 Ai: 44 Gen: 25
3737 Sim Starting
3738 Sim over Total pop = 0 Tick Complete = 3498
    Fitness = 367.75
3739 Ai: 45 Gen: 25
3740 Sim Starting
3741 Sim over Total pop = 0 Tick Complete = 3223
    Fitness = 1043.09999999994
3742 Ai: 46 Gen: 25
3743 Sim Starting
3744 Sim over Total pop = 0 Tick Complete = 2112
    Fitness = 434.0999999999917
3745 Ai: 47 Gen: 25
3746 Sim Starting
3747 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 588.6000000000007
3748 Ai: 48 Gen: 25
3749 Sim Starting
3750 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = -122.5500000000003
3751 Ai: 49 Gen: 25
3752 Sim Starting
3753 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -162.0499999999998
3754 Ai: 50 Gen: 25
3755 Sim Starting
3756 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 553.2
3757 Ai: 0 Gen: 26
3758 Sim Starting
3759 Sim over Total pop = 0 Tick Complete = 1419
    Fitness = 177.0000000000007
3760 Ai: 1 Gen: 26
3761 Sim Starting
```

```
3762 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
3763 Ai: 2 Gen: 26
3764 Sim Starting
3765 Sim over Total pop = 0 Tick Complete = 2970
    Fitness = 363.50000000000034
3766 Ai: 3 Gen: 26
3767 Sim Starting
3768 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
3769 Ai: 4 Gen: 26
3770 Sim Starting
3771 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
3772 Ai: 5 Gen: 26
3773 Sim Starting
3774 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 200.4000000000003
3775 Ai: 6 Gen: 26
3776 Sim Starting
3777 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 146.0
3778 Ai: 7 Gen: 26
3779 Sim Starting
3780 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 435.0
3781 Ai: 8 Gen: 26
3782 Sim Starting
3783 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 279.5
3784 Ai: 9 Gen: 26
3785 Sim Starting
3786 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 390.2000000000005
3787 Ai: 10 Gen: 26
3788 Sim Starting
3789 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 359.4499999999995
3790 Ai: 11 Gen: 26
3791 Sim Starting
3792 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 131.85000000000002
3793 Ai: 12 Gen: 26
3794 Sim Starting
```

```
3795 Sim over Total pop = 0 Tick Complete = 6127
    Fitness = 1335.0000000000257
3796 Ai: 13 Gen: 26
3797 Sim Starting
3798 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 217.0
3799 Ai: 14 Gen: 26
3800 Sim Starting
3801 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3802 Ai: 15 Gen: 26
3803 Sim Starting
3804 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 496.7999999999984
3805 Ai: 16 Gen: 26
3806 Sim Starting
3807 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
3808 Ai: 17 Gen: 26
3809 Sim Starting
3810 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
3811 Ai: 18 Gen: 26
3812 Sim Starting
3813 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3814 Ai: 19 Gen: 26
3815 Sim Starting
3816 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 214.5
3817 Ai: 20 Gen: 26
3818 Sim Starting
3819 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 286.0
3820 Ai: 21 Gen: 26
3821 Sim Starting
3822 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 474.55000000000075
3823 Ai: 22 Gen: 26
3824 Sim Starting
3825 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 577.9000000000005
3826 Ai: 23 Gen: 26
3827 Sim Starting
```

```
3828 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 208.75
3829 Ai: 24 Gen: 26
3830 Sim Starting
3831 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
3832 Ai: 25 Gen: 26
3833 Sim Starting
3834 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 484.4999999999943
3835 Ai: 26 Gen: 26
3836 Sim Starting
3837 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 123.75
3838 Ai: 27 Gen: 26
3839 Sim Starting
3840 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 310.6499999999999
3841 Ai: 28 Gen: 26
3842 Sim Starting
3843 Sim over Total pop = 0 Tick Complete = 6204
    Fitness = 1147.449999999753
3844 Ai: 29 Gen: 26
3845 Sim Starting
3846 Sim over Total pop = 0 Tick Complete = 5401
    Fitness = 606.250000000009
3847 Ai: 30 Gen: 26
3848 Sim Starting
3849 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 214.5
3850 Ai: 31 Gen: 26
3851 Sim Starting
3852 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 238.2499999999999
3853 Ai: 32 Gen: 26
3854 Sim Starting
3855 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 132.3999999999998
3856 Ai: 33 Gen: 26
3857 Sim Starting
3858 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 172.5
3859 Ai: 34 Gen: 26
3860 Sim Starting
```

```
3861 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 326.0
3862 Ai: 35 Gen: 26
3863 Sim Starting
3864 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 249.7499999999972
3865 Ai: 36 Gen: 26
3866 Sim Starting
3867 Sim over Total pop = 0 Tick Complete = 6314
    Fitness = 1763.8000000000386
3868 Ai: 37 Gen: 26
3869 Sim Starting
3870 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 308.5999999999997
3871 Ai: 38 Gen: 26
3872 Sim Starting
3873 Sim over Total pop = 0 Tick Complete = 6556
    Fitness = 1071.4000000000117
3874 Ai: 39 Gen: 26
3875 Sim Starting
3876 Sim over Total pop = 0 Tick Complete = 1793
    Fitness = 612.550000000001
3877 Ai: 40 Gen: 26
3878 Sim Starting
3879 Sim over Total pop = 0 Tick Complete = 5082
    Fitness = 178.15000000000137
3880 Ai: 41 Gen: 26
3881 Sim Starting
3882 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 322.5
3883 Ai: 42 Gen: 26
3884 Sim Starting
3885 Sim over Total pop = 0 Tick Complete = 6490
    Fitness = 539.699999999967
3886 Ai: 43 Gen: 26
3887 Sim Starting
3888 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
3889 Ai: 44 Gen: 26
3890 Sim Starting
3891 Sim over Total pop = 0 Tick Complete = 13211
    Fitness = 919.699999999799
3892 Ai: 45 Gen: 26
3893 Sim Starting
```

```
3894 Sim over Total pop = 0 Tick Complete = 4950
    Fitness = 306.2499999999988
3895 Ai: 46 Gen: 26
3896 Sim Starting
3897 Sim over Total pop = 0 Tick Complete = 7843
    Fitness = 1237.099999999994
3898 Ai: 0 Gen: 27
3899 Sim Starting
3900 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 299.9500000000005
3901 Ai: 1 Gen: 27
3902 Sim Starting
3903 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 360.649999999999
3904 Ai: 2 Gen: 27
3905 Sim Starting
3906 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 153.0
3907 Ai: 3 Gen: 27
3908 Sim Starting
3909 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 966.5499999999989
3910 Ai: 4 Gen: 27
3911 Sim Starting
3912 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 346.5000000000017
3913 Ai: 5 Gen: 27
3914 Sim Starting
3915 Sim over Total pop = 0 Tick Complete = 1727
    Fitness = 621.6499999999967
3916 Ai: 6 Gen: 27
3917 Sim Starting
3918 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
3919 Ai: 7 Gen: 27
3920 Sim Starting
3921 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 230.9000000000003
3922 Ai: 8 Gen: 27
3923 Sim Starting
3924 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 305.5
3925 Ai: 9 Gen: 27
3926 Sim Starting
```

```
3927 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
3928 Ai: 10 Gen: 27
3929 Sim Starting
3930 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
3931 Ai: 11 Gen: 27
3932 Sim Starting
3933 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 289.0
3934 Ai: 12 Gen: 27
3935 Sim Starting
3936 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 324.65000000000015
3937 Ai: 13 Gen: 27
3938 Sim Starting
3939 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 3.65000000000013
3940 Ai: 14 Gen: 27
3941 Sim Starting
3942 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 227.4999999999983
3943 Ai: 15 Gen: 27
3944 Sim Starting
3945 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 162.5
3946 Ai: 16 Gen: 27
3947 Sim Starting
3948 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 55.1499999999969
3949 Ai: 17 Gen: 27
3950 Sim Starting
3951 Sim over Total pop = 0 Tick Complete = 2838
    Fitness = 975.600000000016
3952 Ai: 18 Gen: 27
3953 Sim Starting
3954 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 145.5
3955 Ai: 19 Gen: 27
3956 Sim Starting
3957 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 732.8500000000001
3958 Ai: 20 Gen: 27
3959 Sim Starting
```

```
3960 Sim over Total pop = 0 Tick Complete = 3168
    Fitness = 343.0
3961 Ai: 21 Gen: 27
3962 Sim Starting
3963 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = 930.2500000000002
3964 Ai: 22 Gen: 27
3965 Sim Starting
3966 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 297.85000000000025
3967 Ai: 23 Gen: 27
3968 Sim Starting
3969 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
3970 Ai: 24 Gen: 27
3971 Sim Starting
3972 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 159.0
3973 Ai: 25 Gen: 27
3974 Sim Starting
3975 Sim over Total pop = 0 Tick Complete = 5346
    Fitness = 683.300000000044
3976 Ai: 26 Gen: 27
3977 Sim Starting
3978 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 88.5
3979 Ai: 27 Gen: 27
3980 Sim Starting
3981 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 128.2
3982 Ai: 28 Gen: 27
3983 Sim Starting
3984 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 155.5
3985 Ai: 29 Gen: 27
3986 Sim Starting
3987 Sim over Total pop = 0 Tick Complete = 6996
    Fitness = 670.7
3988 Ai: 30 Gen: 27
3989 Sim Starting
3990 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = -69.75
3991 Ai: 31 Gen: 27
3992 Sim Starting
```

```
3993 Sim over Total pop = 0 Tick Complete = 880
    Fitness = -163.29999999999984
3994 Ai: 32 Gen: 27
3995 Sim Starting
3996 Sim over Total pop = 0 Tick Complete = 7271
    Fitness = 663.849999999999
3997 Ai: 33 Gen: 27
3998 Sim Starting
3999 Sim over Total pop = 0 Tick Complete = 12100
    Fitness = 1336.049999999982
4000 Ai: 34 Gen: 27
4001 Sim Starting
4002 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 118.5
4003 Ai: 35 Gen: 27
4004 Sim Starting
4005 Sim over Total pop = 0 Tick Complete = 5874
    Fitness = 545.800000000034
4006 Ai: 36 Gen: 27
4007 Sim Starting
4008 Sim over Total pop = 0 Tick Complete = 792
    Fitness = -12.89999999999949
4009 Ai: 37 Gen: 27
4010 Sim Starting
4011 Sim over Total pop = 0 Tick Complete = 7150
    Fitness = 309.0
4012 Ai: 38 Gen: 27
4013 Sim Starting
4014 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 291.5
4015 Ai: 39 Gen: 27
4016 Sim Starting
4017 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 668.049999999992
4018 Ai: 40 Gen: 27
4019 Sim Starting
4020 Sim over Total pop = 0 Tick Complete = 4301
    Fitness = 1386.900000000085
4021 Ai: 41 Gen: 27
4022 Sim Starting
4023 Sim over Total pop = 0 Tick Complete = 5214
    Fitness = 538.1500000000001
4024 Ai: 42 Gen: 27
4025 Sim Starting
```

```
4026 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 431.9500000000011
4027 Ai: 43 Gen: 27
4028 Sim Starting
4029 Sim over Total pop = 0 Tick Complete = 9097
    Fitness = 1529.0500000000002
4030 Ai: 44 Gen: 27
4031 Sim Starting
4032 Sim over Total pop = 0 Tick Complete = 6952
    Fitness = 869.6500000000007
4033 Ai: 45 Gen: 27
4034 Sim Starting
4035 Sim over Total pop = 0 Tick Complete = 5280
    Fitness = 1187.100000000013
4036 Ai: 46 Gen: 27
4037 Sim Starting
4038 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -202.25
4039 Ai: 47 Gen: 27
4040 Sim Starting
4041 Sim over Total pop = 0 Tick Complete = 9713
    Fitness = 1083.0000000000002
4042 Ai: 48 Gen: 27
4043 Sim Starting
4044 Sim over Total pop = 0 Tick Complete = 5390
    Fitness = 617.150000000019
4045 Ai: 0 Gen: 28
4046 Sim Starting
4047 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
4048 Ai: 1 Gen: 28
4049 Sim Starting
4050 Sim over Total pop = 0 Tick Complete = 5082
    Fitness = 569.799999999993
4051 Ai: 2 Gen: 28
4052 Sim Starting
4053 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 371.199999999991
4054 Ai: 3 Gen: 28
4055 Sim Starting
4056 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
4057 Ai: 4 Gen: 28
4058 Sim Starting
```

```
4059 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
4060 Ai: 5 Gen: 28
4061 Sim Starting
4062 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
4063 Ai: 6 Gen: 28
4064 Sim Starting
4065 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = -48.99999999999993
4066 Ai: 7 Gen: 28
4067 Sim Starting
4068 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 371.6499999999999
4069 Ai: 8 Gen: 28
4070 Sim Starting
4071 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 173.60000000000008
4072 Ai: 9 Gen: 28
4073 Sim Starting
4074 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 427.0
4075 Ai: 10 Gen: 28
4076 Sim Starting
4077 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 315.30000000000007
4078 Ai: 11 Gen: 28
4079 Sim Starting
4080 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 129.9999999999946
4081 Ai: 12 Gen: 28
4082 Sim Starting
4083 Sim over Total pop = 0 Tick Complete = 22187
    Fitness = 1524.399999999255
4084 Ai: 13 Gen: 28
4085 Sim Starting
4086 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 254.5
4087 Ai: 14 Gen: 28
4088 Sim Starting
4089 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 66.45000000000002
4090 Ai: 15 Gen: 28
4091 Sim Starting
```

```
4092 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -139.8
4093 Ai: 16 Gen: 28
4094 Sim Starting
4095 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 303.5
4096 Ai: 17 Gen: 28
4097 Sim Starting
4098 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = -112.24999999999999
4099 Ai: 18 Gen: 28
4100 Sim Starting
4101 Sim over Total pop = 0 Tick Complete = 3905
    Fitness = 400.85000000000025
4102 Ai: 19 Gen: 28
4103 Sim Starting
4104 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 454.8999999999895
4105 Ai: 20 Gen: 28
4106 Sim Starting
4107 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
4108 Ai: 21 Gen: 28
4109 Sim Starting
4110 Sim over Total pop = 0 Tick Complete = 8272
    Fitness = 763.5499999999997
4111 Ai: 22 Gen: 28
4112 Sim Starting
4113 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 432.4
4114 Ai: 23 Gen: 28
4115 Sim Starting
4116 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
4117 Ai: 24 Gen: 28
4118 Sim Starting
4119 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 185.50000000000017
4120 Ai: 25 Gen: 28
4121 Sim Starting
4122 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 375.25
4123 Ai: 26 Gen: 28
4124 Sim Starting
```

```
4125 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 415.7499999999993
4126 Ai: 27 Gen: 28
4127 Sim Starting
4128 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 282.0
4129 Ai: 28 Gen: 28
4130 Sim Starting
4131 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 556.999999999989
4132 Ai: 29 Gen: 28
4133 Sim Starting
4134 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 167.5
4135 Ai: 30 Gen: 28
4136 Sim Starting
4137 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 142.749999999998
4138 Ai: 31 Gen: 28
4139 Sim Starting
4140 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 312.3500000000001
4141 Ai: 32 Gen: 28
4142 Sim Starting
4143 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 699.900000000035
4144 Ai: 33 Gen: 28
4145 Sim Starting
4146 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 164.25
4147 Ai: 34 Gen: 28
4148 Sim Starting
4149 Sim over Total pop = 0 Tick Complete = 4950
    Fitness = 910.200000000016
4150 Ai: 35 Gen: 28
4151 Sim Starting
4152 Sim over Total pop = 0 Tick Complete = 3740
    Fitness = 223.1000000000002
4153 Ai: 36 Gen: 28
4154 Sim Starting
4155 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 170.65
4156 Ai: 37 Gen: 28
4157 Sim Starting
```

```
4158 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 749.2000000000029
4159 Ai: 38 Gen: 28
4160 Sim Starting
4161 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = -66.55000000000003
4162 Ai: 39 Gen: 28
4163 Sim Starting
4164 Sim over Total pop = 0 Tick Complete = 3190
    Fitness = 478.6999999999976
4165 Ai: 40 Gen: 28
4166 Sim Starting
4167 Sim over Total pop = 0 Tick Complete = 5522
    Fitness = 75.60000000000002
4168 Ai: 41 Gen: 28
4169 Sim Starting
4170 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 728.100000000003
4171 Ai: 42 Gen: 28
4172 Sim Starting
4173 Sim over Total pop = 0 Tick Complete = 12353
    Fitness = 2163.399999999337
4174 Ai: 43 Gen: 28
4175 Sim Starting
4176 Sim over Total pop = 0 Tick Complete = 748
    Fitness = -169.0
4177 Ai: 44 Gen: 28
4178 Sim Starting
4179 Sim over Total pop = 0 Tick Complete = 8712
    Fitness = 1572.000000000662
4180 Ai: 45 Gen: 28
4181 Sim Starting
4182 Sim over Total pop = 0 Tick Complete = 6303
    Fitness = 644.899999999884
4183 Ai: 46 Gen: 28
4184 Sim Starting
4185 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
4186 Ai: 47 Gen: 28
4187 Sim Starting
4188 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 595.749999999999
4189 Ai: 48 Gen: 28
4190 Sim Starting
```

```
4191 Sim over Total pop = 0 Tick Complete = 2288
    Fitness = 628.1999999999998
4192 Ai: 49 Gen: 28
4193 Sim Starting
4194 Sim over Total pop = 0 Tick Complete = 8294
    Fitness = 1151.9999999999711
4195 Ai: 50 Gen: 28
4196 Sim Starting
4197 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -188.55
4198 Ai: 51 Gen: 28
4199 Sim Starting
4200 Sim over Total pop = 0 Tick Complete = 957
    Fitness = -61.75000000000005
4201 Ai: 0 Gen: 29
4202 Sim Starting
4203 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 404.25
4204 Ai: 1 Gen: 29
4205 Sim Starting
4206 Sim over Total pop = 0 Tick Complete = 1672
    Fitness = 542.300000000001
4207 Ai: 2 Gen: 29
4208 Sim Starting
4209 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
4210 Ai: 3 Gen: 29
4211 Sim Starting
4212 Sim over Total pop = 0 Tick Complete = 4422
    Fitness = 359.000000000036
4213 Ai: 4 Gen: 29
4214 Sim Starting
4215 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 237.25
4216 Ai: 5 Gen: 29
4217 Sim Starting
4218 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 435.699999999999
4219 Ai: 6 Gen: 29
4220 Sim Starting
4221 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = 266.8
4222 Ai: 7 Gen: 29
4223 Sim Starting
```

```
4224 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 215.6499999999998
4225 Ai: 8 Gen: 29
4226 Sim Starting
4227 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 696.449999999994
4228 Ai: 9 Gen: 29
4229 Sim Starting
4230 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 154.5
4231 Ai: 10 Gen: 29
4232 Sim Starting
4233 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 305.4999999999955
4234 Ai: 11 Gen: 29
4235 Sim Starting
4236 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = 260.249999999998
4237 Ai: 12 Gen: 29
4238 Sim Starting
4239 Sim over Total pop = 0 Tick Complete = 1848
    Fitness = 478.4000000000043
4240 Ai: 13 Gen: 29
4241 Sim Starting
4242 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 266.55
4243 Ai: 14 Gen: 29
4244 Sim Starting
4245 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 306.0
4246 Ai: 15 Gen: 29
4247 Sim Starting
4248 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 222.0999999999997
4249 Ai: 16 Gen: 29
4250 Sim Starting
4251 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 403.5499999999999
4252 Ai: 17 Gen: 29
4253 Sim Starting
4254 Sim over Total pop = 0 Tick Complete = 2629
    Fitness = 407.4499999999983
4255 Ai: 18 Gen: 29
4256 Sim Starting
```

```
4257 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 236.84999999999962
4258 Ai: 19 Gen: 29
4259 Sim Starting
4260 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 131.60000000000002
4261 Ai: 20 Gen: 29
4262 Sim Starting
4263 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
4264 Ai: 21 Gen: 29
4265 Sim Starting
4266 Sim over Total pop = 0 Tick Complete = 3014
    Fitness = 876.4000000000003
4267 Ai: 22 Gen: 29
4268 Sim Starting
4269 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 129.0
4270 Ai: 23 Gen: 29
4271 Sim Starting
4272 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 757.9499999999982
4273 Ai: 24 Gen: 29
4274 Sim Starting
4275 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 166.8999999999947
4276 Ai: 25 Gen: 29
4277 Sim Starting
4278 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 464.2499999999992
4279 Ai: 26 Gen: 29
4280 Sim Starting
4281 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
4282 Ai: 27 Gen: 29
4283 Sim Starting
4284 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 260.0
4285 Ai: 28 Gen: 29
4286 Sim Starting
4287 Sim over Total pop = 0 Tick Complete = 9086
    Fitness = 1011.5000000000041
4288 Ai: 29 Gen: 29
4289 Sim Starting
```

```
4290 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 218.0
4291 Ai: 30 Gen: 29
4292 Sim Starting
4293 Sim over Total pop = 0 Tick Complete = 3322
    Fitness = 354.7499999999999
4294 Ai: 31 Gen: 29
4295 Sim Starting
4296 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 463.700000000001
4297 Ai: 32 Gen: 29
4298 Sim Starting
4299 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 159.25
4300 Ai: 33 Gen: 29
4301 Sim Starting
4302 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 803.6500000000075
4303 Ai: 34 Gen: 29
4304 Sim Starting
4305 Sim over Total pop = 0 Tick Complete = 5599
    Fitness = 121.75
4306 Ai: 35 Gen: 29
4307 Sim Starting
4308 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 325.8500000000025
4309 Ai: 36 Gen: 29
4310 Sim Starting
4311 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 260.999999999994
4312 Ai: 37 Gen: 29
4313 Sim Starting
4314 Sim over Total pop = 0 Tick Complete = 3641
    Fitness = 5.40000000000006
4315 Ai: 38 Gen: 29
4316 Sim Starting
4317 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
4318 Ai: 39 Gen: 29
4319 Sim Starting
4320 Sim over Total pop = 0 Tick Complete = 10120
    Fitness = 841.2000000000044
4321 Ai: 40 Gen: 29
4322 Sim Starting
```

```
4323 Sim over Total pop = 0 Tick Complete = 7139
      Fitness = 1235.9999999999918
4324 Ai: 41 Gen: 29
4325 Sim Starting
4326 Sim over Total pop = 0 Tick Complete = 2618
      Fitness = 227.0499999999997
4327 Ai: 42 Gen: 29
4328 Sim Starting
4329 Sim over Total pop = 0 Tick Complete = 1111
      Fitness = -115.8000000000028
4330 Ai: 43 Gen: 29
4331 Sim Starting
4332 Sim over Total pop = 0 Tick Complete = 638
      Fitness = -185.55
4333 Ai: 44 Gen: 29
4334 Sim Starting
4335 Sim over Total pop = 0 Tick Complete = 2233
      Fitness = 365.7500000000097
4336 Ai: 45 Gen: 29
4337 Sim Starting
4338 Sim over Total pop = 0 Tick Complete = 539
      Fitness = -173.4
4339 Ai: 46 Gen: 29
4340 Sim Starting
4341 Sim over Total pop = 0 Tick Complete = 10010
      Fitness = 1242.600000000467
4342 Ai: 47 Gen: 29
4343 Sim Starting
4344 Sim over Total pop = 0 Tick Complete = 946
      Fitness = 128.6000000000048
4345 Ai: 48 Gen: 29
4346 Sim Starting
4347 Sim over Total pop = 0 Tick Complete = 671
      Fitness = 179.25
4348 Ai: 49 Gen: 29
4349 Sim Starting
4350 Sim over Total pop = 0 Tick Complete = 990
      Fitness = 308.4499999999965
4351 Ai: 0 Gen: 30
4352 Sim Starting
4353 Sim over Total pop = 0 Tick Complete = 1353
      Fitness = 487.1000000000036
4354 Ai: 1 Gen: 30
4355 Sim Starting
```

```
4356 Sim over Total pop = 0 Tick Complete = 2519
    Fitness = 852.7499999999962
4357 Ai: 2 Gen: 30
4358 Sim Starting
4359 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 524.599999999999
4360 Ai: 3 Gen: 30
4361 Sim Starting
4362 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 524.449999999999
4363 Ai: 4 Gen: 30
4364 Sim Starting
4365 Sim over Total pop = 0 Tick Complete = 7964
    Fitness = 689.800000000001
4366 Ai: 5 Gen: 30
4367 Sim Starting
4368 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 478.3499999999974
4369 Ai: 6 Gen: 30
4370 Sim Starting
4371 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
4372 Ai: 7 Gen: 30
4373 Sim Starting
4374 Sim over Total pop = 0 Tick Complete = 3091
    Fitness = 357.0500000000024
4375 Ai: 8 Gen: 30
4376 Sim Starting
4377 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 775.0500000000046
4378 Ai: 9 Gen: 30
4379 Sim Starting
4380 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 103.2499999999955
4381 Ai: 10 Gen: 30
4382 Sim Starting
4383 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 300.0
4384 Ai: 11 Gen: 30
4385 Sim Starting
4386 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 265.5
4387 Ai: 12 Gen: 30
4388 Sim Starting
```

```
4389 Sim over Total pop = 0 Tick Complete = 5500
    Fitness = 425.2
4390 Ai: 13 Gen: 30
4391 Sim Starting
4392 Sim over Total pop = 0 Tick Complete = 858
    Fitness = 195.0
4393 Ai: 14 Gen: 30
4394 Sim Starting
4395 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 406.999999999998
4396 Ai: 15 Gen: 30
4397 Sim Starting
4398 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 464.80000000000086
4399 Ai: 16 Gen: 30
4400 Sim Starting
4401 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 232.3999999999998
4402 Ai: 17 Gen: 30
4403 Sim Starting
4404 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 253.7999999999995
4405 Ai: 18 Gen: 30
4406 Sim Starting
4407 Sim over Total pop = 0 Tick Complete = 2057
    Fitness = 271.5
4408 Ai: 19 Gen: 30
4409 Sim Starting
4410 Sim over Total pop = 0 Tick Complete = 16038
    Fitness = 1644.449999999998
4411 Ai: 20 Gen: 30
4412 Sim Starting
4413 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 163.8999999999998
4414 Ai: 21 Gen: 30
4415 Sim Starting
4416 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
4417 Ai: 22 Gen: 30
4418 Sim Starting
4419 Sim over Total pop = 0 Tick Complete = 1188
    Fitness = 158.65
4420 Ai: 23 Gen: 30
4421 Sim Starting
```

```
4422 Sim over Total pop = 0 Tick Complete = 1540
    Fitness = 158.94999999999996
4423 Ai: 24 Gen: 30
4424 Sim Starting
4425 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 433.25
4426 Ai: 25 Gen: 30
4427 Sim Starting
4428 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 174.5
4429 Ai: 26 Gen: 30
4430 Sim Starting
4431 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 118.7999999999995
4432 Ai: 27 Gen: 30
4433 Sim Starting
4434 Sim over Total pop = 0 Tick Complete = 26642
    Fitness = 1465.1000000000474
4435 Ai: 28 Gen: 30
4436 Sim Starting
4437 Sim over Total pop = 0 Tick Complete = 3410
    Fitness = 524.499999999999
4438 Ai: 29 Gen: 30
4439 Sim Starting
4440 Sim over Total pop = 0 Tick Complete = 9548
    Fitness = 437.85
4441 Ai: 30 Gen: 30
4442 Sim Starting
4443 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 515.7499999999998
4444 Ai: 31 Gen: 30
4445 Sim Starting
4446 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 267.5
4447 Ai: 32 Gen: 30
4448 Sim Starting
4449 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 387.5
4450 Ai: 33 Gen: 30
4451 Sim Starting
4452 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 520.9000000000023
4453 Ai: 34 Gen: 30
4454 Sim Starting
```

```
4455 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 282.05
4456 Ai: 35 Gen: 30
4457 Sim Starting
4458 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 167.000000000001
4459 Ai: 36 Gen: 30
4460 Sim Starting
4461 Sim over Total pop = 0 Tick Complete = 4620
    Fitness = 618.949999999987
4462 Ai: 37 Gen: 30
4463 Sim Starting
4464 Sim over Total pop = 0 Tick Complete = 2244
    Fitness = 334.150000000006
4465 Ai: 38 Gen: 30
4466 Sim Starting
4467 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 280.5999999999957
4468 Ai: 39 Gen: 30
4469 Sim Starting
4470 Sim over Total pop = 0 Tick Complete = 3575
    Fitness = 678.949999999942
4471 Ai: 40 Gen: 30
4472 Sim Starting
4473 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 179.2500000000017
4474 Ai: 41 Gen: 30
4475 Sim Starting
4476 Sim over Total pop = 0 Tick Complete = 3421
    Fitness = 458.099999999984
4477 Ai: 42 Gen: 30
4478 Sim Starting
4479 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 663.800000000058
4480 Ai: 43 Gen: 30
4481 Sim Starting
4482 Sim over Total pop = 0 Tick Complete = 12551
    Fitness = 2012.500000000093
4483 Ai: 44 Gen: 30
4484 Sim Starting
4485 Sim over Total pop = 0 Tick Complete = 9647
    Fitness = 1992.9500000000821
4486 Ai: 45 Gen: 30
4487 Sim Starting
```

```
4488 Sim over Total pop = 0 Tick Complete = 3432
    Fitness = 1207.9500000000003
4489 Ai: 46 Gen: 30
4490 Sim Starting
4491 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = -102.1999999999999
4492 Ai: 47 Gen: 30
4493 Sim Starting
4494 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = -19.09999999999973
4495 Ai: 48 Gen: 30
4496 Sim Starting
4497 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -189.3
4498 Ai: 49 Gen: 30
4499 Sim Starting
4500 Sim over Total pop = 0 Tick Complete = 2607
    Fitness = 5.40000000000087
4501 Ai: 50 Gen: 30
4502 Sim Starting
4503 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = -128.65
4504 Ai: 0 Gen: 31
4505 Sim Starting
4506 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 244.249999999996
4507 Ai: 1 Gen: 31
4508 Sim Starting
4509 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 415.600000000012
4510 Ai: 2 Gen: 31
4511 Sim Starting
4512 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 616.900000000017
4513 Ai: 3 Gen: 31
4514 Sim Starting
4515 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 687.349999999998
4516 Ai: 4 Gen: 31
4517 Sim Starting
4518 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 226.5
4519 Ai: 5 Gen: 31
4520 Sim Starting
```

```
4521 Sim over Total pop = 0 Tick Complete = 5126
    Fitness = 487.2499999999993
4522 Ai: 6 Gen: 31
4523 Sim Starting
4524 Sim over Total pop = 0 Tick Complete = 3619
    Fitness = 202.5000000000015
4525 Ai: 7 Gen: 31
4526 Sim Starting
4527 Sim over Total pop = 0 Tick Complete = 1749
    Fitness = 608.4500000000006
4528 Ai: 8 Gen: 31
4529 Sim Starting
4530 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 270.499999999998
4531 Ai: 9 Gen: 31
4532 Sim Starting
4533 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 161.5
4534 Ai: 10 Gen: 31
4535 Sim Starting
4536 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 508.6499999999977
4537 Ai: 11 Gen: 31
4538 Sim Starting
4539 Sim over Total pop = 0 Tick Complete = 36608
    Fitness = 2524.3000000001985
4540 Ai: 12 Gen: 31
4541 Sim Starting
4542 Sim over Total pop = 0 Tick Complete = 1716
    Fitness = 648.399999999994
4543 Ai: 13 Gen: 31
4544 Sim Starting
4545 Sim over Total pop = 0 Tick Complete = 3388
    Fitness = 250.8500000000007
4546 Ai: 14 Gen: 31
4547 Sim Starting
4548 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 331.5
4549 Ai: 15 Gen: 31
4550 Sim Starting
4551 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 232.45000000000005
4552 Ai: 16 Gen: 31
4553 Sim Starting
```

```
4554 Sim over Total pop = 0 Tick Complete = 3861
    Fitness = 345.29999999999995
4555 Ai: 17 Gen: 31
4556 Sim Starting
4557 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
4558 Ai: 18 Gen: 31
4559 Sim Starting
4560 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -1.0
4561 Ai: 19 Gen: 31
4562 Sim Starting
4563 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 446.1999999999976
4564 Ai: 20 Gen: 31
4565 Sim Starting
4566 Sim over Total pop = 0 Tick Complete = 3476
    Fitness = 341.8500000000001
4567 Ai: 21 Gen: 31
4568 Sim Starting
4569 Sim over Total pop = 0 Tick Complete = 682
    Fitness = 152.0
4570 Ai: 22 Gen: 31
4571 Sim Starting
4572 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 581.8499999999996
4573 Ai: 23 Gen: 31
4574 Sim Starting
4575 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 562.2499999999958
4576 Ai: 24 Gen: 31
4577 Sim Starting
4578 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 244.8999999999998
4579 Ai: 25 Gen: 31
4580 Sim Starting
4581 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
4582 Ai: 26 Gen: 31
4583 Sim Starting
4584 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -141.15
4585 Ai: 27 Gen: 31
4586 Sim Starting
```

```
4587 Sim over Total pop = 0 Tick Complete = 2673
    Fitness = 442.45
4588 Ai: 28 Gen: 31
4589 Sim Starting
4590 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 122.0
4591 Ai: 29 Gen: 31
4592 Sim Starting
4593 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 126.0
4594 Ai: 30 Gen: 31
4595 Sim Starting
4596 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 233.4499999999885
4597 Ai: 31 Gen: 31
4598 Sim Starting
4599 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
4600 Ai: 32 Gen: 31
4601 Sim Starting
4602 Sim over Total pop = 0 Tick Complete = 5082
    Fitness = 411.399999999987
4603 Ai: 33 Gen: 31
4604 Sim Starting
4605 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 166.5
4606 Ai: 34 Gen: 31
4607 Sim Starting
4608 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 262.949999999993
4609 Ai: 35 Gen: 31
4610 Sim Starting
4611 Sim over Total pop = 0 Tick Complete = 5445
    Fitness = 285.799999999996
4612 Ai: 36 Gen: 31
4613 Sim Starting
4614 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 298.600000000005
4615 Ai: 37 Gen: 31
4616 Sim Starting
4617 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 391.7999999999995
4618 Ai: 38 Gen: 31
4619 Sim Starting
```

```
4620 Sim over Total pop = 0 Tick Complete = 3564
    Fitness = 622.8499999999991
4621 Ai: 39 Gen: 31
4622 Sim Starting
4623 Sim over Total pop = 0 Tick Complete = 3762
    Fitness = 667.149999999998
4624 Ai: 40 Gen: 31
4625 Sim Starting
4626 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -134.6499999999998
4627 Ai: 41 Gen: 31
4628 Sim Starting
4629 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 391.0
4630 Ai: 42 Gen: 31
4631 Sim Starting
4632 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -142.7
4633 Ai: 43 Gen: 31
4634 Sim Starting
4635 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 920.399999999986
4636 Ai: 44 Gen: 31
4637 Sim Starting
4638 Sim over Total pop = 0 Tick Complete = 23661
    Fitness = 1676.7499999999254
4639 Ai: 45 Gen: 31
4640 Sim Starting
4641 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = -35.45000000000006
4642 Ai: 46 Gen: 31
4643 Sim Starting
4644 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 231.199999999993
4645 Ai: 47 Gen: 31
4646 Sim Starting
4647 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 453.4000000000018
4648 Ai: 0 Gen: 32
4649 Sim Starting
4650 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 508.8499999999945
4651 Ai: 1 Gen: 32
4652 Sim Starting
```

```
4653 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 429.6999999999998
4654 Ai: 2 Gen: 32
4655 Sim Starting
4656 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
4657 Ai: 3 Gen: 32
4658 Sim Starting
4659 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 179.4499999999998
4660 Ai: 4 Gen: 32
4661 Sim Starting
4662 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 158.2999999999996
4663 Ai: 5 Gen: 32
4664 Sim Starting
4665 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = 324.9500000000009
4666 Ai: 6 Gen: 32
4667 Sim Starting
4668 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
4669 Ai: 7 Gen: 32
4670 Sim Starting
4671 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 358.5500000000007
4672 Ai: 8 Gen: 32
4673 Sim Starting
4674 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 410.5
4675 Ai: 9 Gen: 32
4676 Sim Starting
4677 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 161.5999999999997
4678 Ai: 10 Gen: 32
4679 Sim Starting
4680 Sim over Total pop = 0 Tick Complete = 4873
    Fitness = 788.400000000141
4681 Ai: 11 Gen: 32
4682 Sim Starting
4683 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 166.7999999999984
4684 Ai: 12 Gen: 32
4685 Sim Starting
```

```
4686 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 326.5
4687 Ai: 13 Gen: 32
4688 Sim Starting
4689 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 231.5
4690 Ai: 14 Gen: 32
4691 Sim Starting
4692 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = 527.000000000001
4693 Ai: 15 Gen: 32
4694 Sim Starting
4695 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 514.650000000003
4696 Ai: 16 Gen: 32
4697 Sim Starting
4698 Sim over Total pop = 0 Tick Complete = 1441
    Fitness = 408.400000000001
4699 Ai: 17 Gen: 32
4700 Sim Starting
4701 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 806.850000000021
4702 Ai: 18 Gen: 32
4703 Sim Starting
4704 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
4705 Ai: 19 Gen: 32
4706 Sim Starting
4707 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
4708 Ai: 20 Gen: 32
4709 Sim Starting
4710 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -109.600000000004
4711 Ai: 21 Gen: 32
4712 Sim Starting
4713 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
4714 Ai: 22 Gen: 32
4715 Sim Starting
4716 Sim over Total pop = 0 Tick Complete = 7458
    Fitness = 823.199999999873
4717 Ai: 23 Gen: 32
4718 Sim Starting
```

```
4719 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 182.85
4720 Ai: 24 Gen: 32
4721 Sim Starting
4722 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 284.4499999999925
4723 Ai: 25 Gen: 32
4724 Sim Starting
4725 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 249.000000000001
4726 Ai: 26 Gen: 32
4727 Sim Starting
4728 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 244.05000000000018
4729 Ai: 27 Gen: 32
4730 Sim Starting
4731 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 436.0999999999945
4732 Ai: 28 Gen: 32
4733 Sim Starting
4734 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 145.0
4735 Ai: 29 Gen: 32
4736 Sim Starting
4737 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -202.3
4738 Ai: 30 Gen: 32
4739 Sim Starting
4740 Sim over Total pop = 0 Tick Complete = 3916
    Fitness = 735.9500000000022
4741 Ai: 31 Gen: 32
4742 Sim Starting
4743 Sim over Total pop = 0 Tick Complete = 4609
    Fitness = 885.800000000137
4744 Ai: 32 Gen: 32
4745 Sim Starting
4746 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -200.35
4747 Ai: 33 Gen: 32
4748 Sim Starting
4749 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -201.9
4750 Ai: 34 Gen: 32
4751 Sim Starting
```

```
4752 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.85
4753 Ai: 35 Gen: 32
4754 Sim Starting
4755 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 276.7499999999943
4756 Ai: 36 Gen: 32
4757 Sim Starting
4758 Sim over Total pop = 0 Tick Complete = 2651
    Fitness = 130.1999999999894
4759 Ai: 37 Gen: 32
4760 Sim Starting
4761 Sim over Total pop = 0 Tick Complete = 6523
    Fitness = 1194.3000000000256
4762 Ai: 38 Gen: 32
4763 Sim Starting
4764 Sim over Total pop = 0 Tick Complete = 4158
    Fitness = 278.6999999999993
4765 Ai: 39 Gen: 32
4766 Sim Starting
4767 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 307.1
4768 Ai: 40 Gen: 32
4769 Sim Starting
4770 Sim over Total pop = 0 Tick Complete = 1771
    Fitness = 320.7500000000057
4771 Ai: 41 Gen: 32
4772 Sim Starting
4773 Sim over Total pop = 0 Tick Complete = 2783
    Fitness = 904.950000000004
4774 Ai: 42 Gen: 32
4775 Sim Starting
4776 Sim over Total pop = 0 Tick Complete = 2574
    Fitness = 995.449999999955
4777 Ai: 43 Gen: 32
4778 Sim Starting
4779 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 285.0
4780 Ai: 44 Gen: 32
4781 Sim Starting
4782 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 248.0
4783 Ai: 45 Gen: 32
4784 Sim Starting
```

```
4785 Sim over Total pop = 0 Tick Complete = 1661
    Fitness = 228.14999999999995
4786 Ai: 46 Gen: 32
4787 Sim Starting
4788 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 754.3499999999952
4789 Ai: 47 Gen: 32
4790 Sim Starting
4791 Sim over Total pop = 0 Tick Complete = 4994
    Fitness = 1080.900000000018
4792 Ai: 48 Gen: 32
4793 Sim Starting
4794 Sim over Total pop = 0 Tick Complete = 3124
    Fitness = 621.499999999961
4795 Ai: 0 Gen: 33
4796 Sim Starting
4797 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 610.200000000041
4798 Ai: 1 Gen: 33
4799 Sim Starting
4800 Sim over Total pop = 0 Tick Complete = 7447
    Fitness = 1040.3000000000156
4801 Ai: 2 Gen: 33
4802 Sim Starting
4803 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
4804 Ai: 3 Gen: 33
4805 Sim Starting
4806 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 383.0
4807 Ai: 4 Gen: 33
4808 Sim Starting
4809 Sim over Total pop = 0 Tick Complete = 770
    Fitness = -98.5999999999994
4810 Ai: 5 Gen: 33
4811 Sim Starting
4812 Sim over Total pop = 0 Tick Complete = 3135
    Fitness = 774.1
4813 Ai: 6 Gen: 33
4814 Sim Starting
4815 Sim over Total pop = 0 Tick Complete = 5621
    Fitness = 809.449999999935
4816 Ai: 7 Gen: 33
4817 Sim Starting
```

```
4818 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 282.70000000000175
4819 Ai: 8 Gen: 33
4820 Sim Starting
4821 Sim over Total pop = 0 Tick Complete = 2013
    Fitness = 271.4999999999998
4822 Ai: 9 Gen: 33
4823 Sim Starting
4824 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 157.9999999999997
4825 Ai: 10 Gen: 33
4826 Sim Starting
4827 Sim over Total pop = 0 Tick Complete = 2530
    Fitness = 557.2499999999986
4828 Ai: 11 Gen: 33
4829 Sim Starting
4830 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 196.0
4831 Ai: 12 Gen: 33
4832 Sim Starting
4833 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 660.1000000000009
4834 Ai: 13 Gen: 33
4835 Sim Starting
4836 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 162.0
4837 Ai: 14 Gen: 33
4838 Sim Starting
4839 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 261.0
4840 Ai: 15 Gen: 33
4841 Sim Starting
4842 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 478.0500000000001
4843 Ai: 16 Gen: 33
4844 Sim Starting
4845 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 262.0
4846 Ai: 17 Gen: 33
4847 Sim Starting
4848 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 383.5
4849 Ai: 18 Gen: 33
4850 Sim Starting
```

```
4851 Sim over Total pop = 0 Tick Complete = 2277
    Fitness = 608.2000000000003
4852 Ai: 19 Gen: 33
4853 Sim Starting
4854 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 10.39999999999999
4855 Ai: 20 Gen: 33
4856 Sim Starting
4857 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 35.24999999999986
4858 Ai: 21 Gen: 33
4859 Sim Starting
4860 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 212.6499999999998
4861 Ai: 22 Gen: 33
4862 Sim Starting
4863 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 79.9999999999997
4864 Ai: 23 Gen: 33
4865 Sim Starting
4866 Sim over Total pop = 0 Tick Complete = 25168
    Fitness = 1403.499999999668
4867 Ai: 24 Gen: 33
4868 Sim Starting
4869 Sim over Total pop = 0 Tick Complete = 803
    Fitness = 118.3000000000007
4870 Ai: 25 Gen: 33
4871 Sim Starting
4872 Sim over Total pop = 0 Tick Complete = 2178
    Fitness = -121.35
4873 Ai: 26 Gen: 33
4874 Sim Starting
4875 Sim over Total pop = 0 Tick Complete = 1166
    Fitness = 303.599999999998
4876 Ai: 27 Gen: 33
4877 Sim Starting
4878 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 392.1500000000043
4879 Ai: 28 Gen: 33
4880 Sim Starting
4881 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = 276.5500000000004
4882 Ai: 29 Gen: 33
4883 Sim Starting
```

```
4884 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
4885 Ai: 30 Gen: 33
4886 Sim Starting
4887 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 141.0
4888 Ai: 31 Gen: 33
4889 Sim Starting
4890 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 426.15000000000015
4891 Ai: 32 Gen: 33
4892 Sim Starting
4893 Sim over Total pop = 0 Tick Complete = 2013
    Fitness = 592.3
4894 Ai: 33 Gen: 33
4895 Sim Starting
4896 Sim over Total pop = 0 Tick Complete = 3135
    Fitness = 524.799999999993
4897 Ai: 34 Gen: 33
4898 Sim Starting
4899 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 0.5
4900 Ai: 35 Gen: 33
4901 Sim Starting
4902 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 265.85000000000036
4903 Ai: 36 Gen: 33
4904 Sim Starting
4905 Sim over Total pop = 0 Tick Complete = 726
    Fitness = -143.1500000000003
4906 Ai: 37 Gen: 33
4907 Sim Starting
4908 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 989.0
4909 Ai: 38 Gen: 33
4910 Sim Starting
4911 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 237.5499999999995
4912 Ai: 39 Gen: 33
4913 Sim Starting
4914 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 371.8999999999964
4915 Ai: 40 Gen: 33
4916 Sim Starting
```

```
4917 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 306.0
4918 Ai: 41 Gen: 33
4919 Sim Starting
4920 Sim over Total pop = 0 Tick Complete = 12045
    Fitness = 983.4000000000251
4921 Ai: 42 Gen: 33
4922 Sim Starting
4923 Sim over Total pop = 0 Tick Complete = 4433
    Fitness = 492.9500000000021
4924 Ai: 43 Gen: 33
4925 Sim Starting
4926 Sim over Total pop = 0 Tick Complete = 2365
    Fitness = -10.300000000000253
4927 Ai: 44 Gen: 33
4928 Sim Starting
4929 Sim over Total pop = 0 Tick Complete = 9284
    Fitness = 769.5000000000109
4930 Ai: 45 Gen: 33
4931 Sim Starting
4932 Sim over Total pop = 0 Tick Complete = 880
    Fitness = -158.59999999999997
4933 Ai: 46 Gen: 33
4934 Sim Starting
4935 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 134.5
4936 Ai: 47 Gen: 33
4937 Sim Starting
4938 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 196.55000000000013
4939 Ai: 48 Gen: 33
4940 Sim Starting
4941 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 29.44999999999994
4942 Ai: 0 Gen: 34
4943 Sim Starting
4944 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 446.7000000000004
4945 Ai: 1 Gen: 34
4946 Sim Starting
4947 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 209.30000000000018
4948 Ai: 2 Gen: 34
4949 Sim Starting
```

```
4950 Sim over Total pop = 0 Tick Complete = 1485
    Fitness = 236.5000000000004
4951 Ai: 3 Gen: 34
4952 Sim Starting
4953 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 510.3499999999945
4954 Ai: 4 Gen: 34
4955 Sim Starting
4956 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 366.25
4957 Ai: 5 Gen: 34
4958 Sim Starting
4959 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 305.799999999996
4960 Ai: 6 Gen: 34
4961 Sim Starting
4962 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 485.7499999999886
4963 Ai: 7 Gen: 34
4964 Sim Starting
4965 Sim over Total pop = 0 Tick Complete = 3388
    Fitness = 354.5
4966 Ai: 8 Gen: 34
4967 Sim Starting
4968 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 392.7499999999966
4969 Ai: 9 Gen: 34
4970 Sim Starting
4971 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 280.5
4972 Ai: 10 Gen: 34
4973 Sim Starting
4974 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 405.0
4975 Ai: 11 Gen: 34
4976 Sim Starting
4977 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 681.199999999962
4978 Ai: 12 Gen: 34
4979 Sim Starting
4980 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
4981 Ai: 13 Gen: 34
4982 Sim Starting
```

```
4983 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 155.5
4984 Ai: 14 Gen: 34
4985 Sim Starting
4986 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 295.0
4987 Ai: 15 Gen: 34
4988 Sim Starting
4989 Sim over Total pop = 0 Tick Complete = 1210
    Fitness = 309.2999999999991
4990 Ai: 16 Gen: 34
4991 Sim Starting
4992 Sim over Total pop = 0 Tick Complete = 8217
    Fitness = 560.5499999999989
4993 Ai: 17 Gen: 34
4994 Sim Starting
4995 Sim over Total pop = 0 Tick Complete = 7216
    Fitness = 1568.5500000000022
4996 Ai: 18 Gen: 34
4997 Sim Starting
4998 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -186.7000000000002
4999 Ai: 19 Gen: 34
5000 Sim Starting
5001 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 137.0000000000028
5002 Ai: 20 Gen: 34
5003 Sim Starting
5004 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 731.1000000000085
5005 Ai: 21 Gen: 34
5006 Sim Starting
5007 Sim over Total pop = 0 Tick Complete = 27764
    Fitness = 1574.300000000002
5008 Ai: 22 Gen: 34
5009 Sim Starting
5010 Sim over Total pop = 0 Tick Complete = 14861
    Fitness = 1170.5000000000025
5011 Ai: 23 Gen: 34
5012 Sim Starting
5013 Sim over Total pop = 0 Tick Complete = 13618
    Fitness = 876.399999999786
5014 Ai: 24 Gen: 34
5015 Sim Starting
```

```
5016 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -193.4
5017 Ai: 25 Gen: 34
5018 Sim Starting
5019 Sim over Total pop = 0 Tick Complete = 9185
    Fitness = 540.5499999999976
5020 Ai: 26 Gen: 34
5021 Sim Starting
5022 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 86.45000000000002
5023 Ai: 27 Gen: 34
5024 Sim Starting
5025 Sim over Total pop = 0 Tick Complete = 3179
    Fitness = -58.250000000000824
5026 Ai: 28 Gen: 34
5027 Sim Starting
5028 Sim over Total pop = 0 Tick Complete = 748
    Fitness = -187.3
5029 Ai: 29 Gen: 34
5030 Sim Starting
5031 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 592.5499999999995
5032 Ai: 30 Gen: 34
5033 Sim Starting
5034 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 908.5000000000053
5035 Ai: 31 Gen: 34
5036 Sim Starting
5037 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 248.5
5038 Ai: 32 Gen: 34
5039 Sim Starting
5040 Sim over Total pop = 0 Tick Complete = 6248
    Fitness = 889.800000000019
5041 Ai: 33 Gen: 34
5042 Sim Starting
5043 Sim over Total pop = 0 Tick Complete = 924
    Fitness = 321.65
5044 Ai: 34 Gen: 34
5045 Sim Starting
5046 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = -23.900000000000006
5047 Ai: 35 Gen: 34
5048 Sim Starting
```

```
5049 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 258.45000000000005
5050 Ai: 36 Gen: 34
5051 Sim Starting
5052 Sim over Total pop = 0 Tick Complete = 3256
    Fitness = 312.6000000000036
5053 Ai: 37 Gen: 34
5054 Sim Starting
5055 Sim over Total pop = 0 Tick Complete = 3674
    Fitness = 700.5000000000013
5056 Ai: 38 Gen: 34
5057 Sim Starting
5058 Sim over Total pop = 0 Tick Complete = 14036
    Fitness = 1660.1000000000572
5059 Ai: 39 Gen: 34
5060 Sim Starting
5061 Sim over Total pop = 0 Tick Complete = 5192
    Fitness = 401.5500000000007
5062 Ai: 40 Gen: 34
5063 Sim Starting
5064 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
5065 Ai: 41 Gen: 34
5066 Sim Starting
5067 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
5068 Ai: 42 Gen: 34
5069 Sim Starting
5070 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 319.0
5071 Ai: 43 Gen: 34
5072 Sim Starting
5073 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
5074 Ai: 44 Gen: 34
5075 Sim Starting
5076 Sim over Total pop = 0 Tick Complete = 21835
    Fitness = 1042.8
5077 Ai: 45 Gen: 34
5078 Sim Starting
5079 Sim over Total pop = 0 Tick Complete = 770
    Fitness = -105.0
5080 Ai: 46 Gen: 34
5081 Sim Starting
```

```
5082 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 196.15000000000072
5083 Ai: 47 Gen: 34
5084 Sim Starting
5085 Sim over Total pop = 0 Tick Complete = 4532
    Fitness = 587.5499999999988
5086 Ai: 48 Gen: 34
5087 Sim Starting
5088 Sim over Total pop = 0 Tick Complete = 4774
    Fitness = 547.2000000000025
5089 Ai: 49 Gen: 34
5090 Sim Starting
5091 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 544.949999999999
5092 Ai: 50 Gen: 34
5093 Sim Starting
5094 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -80.25
5095 Ai: 0 Gen: 35
5096 Sim Starting
5097 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 305.2499999999999
5098 Ai: 1 Gen: 35
5099 Sim Starting
5100 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 309.25
5101 Ai: 2 Gen: 35
5102 Sim Starting
5103 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 450.000000000001
5104 Ai: 3 Gen: 35
5105 Sim Starting
5106 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 272.5
5107 Ai: 4 Gen: 35
5108 Sim Starting
5109 Sim over Total pop = 0 Tick Complete = 2200
    Fitness = 306.75
5110 Ai: 5 Gen: 35
5111 Sim Starting
5112 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 389.6499999999964
5113 Ai: 6 Gen: 35
5114 Sim Starting
```

```
5115 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = -39.94999999999999
5116 Ai: 7 Gen: 35
5117 Sim Starting
5118 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 225.0
5119 Ai: 8 Gen: 35
5120 Sim Starting
5121 Sim over Total pop = 0 Tick Complete = 5665
    Fitness = 484.150000000017
5122 Ai: 9 Gen: 35
5123 Sim Starting
5124 Sim over Total pop = 0 Tick Complete = 16456
    Fitness = 1078.349999999883
5125 Ai: 10 Gen: 35
5126 Sim Starting
5127 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = -148.749999999994
5128 Ai: 11 Gen: 35
5129 Sim Starting
5130 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 219.299999999995
5131 Ai: 12 Gen: 35
5132 Sim Starting
5133 Sim over Total pop = 0 Tick Complete = 21318
    Fitness = 1746.800000000309
5134 Ai: 13 Gen: 35
5135 Sim Starting
5136 Sim over Total pop = 0 Tick Complete = 1595
    Fitness = 486.949999999982
5137 Ai: 14 Gen: 35
5138 Sim Starting
5139 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 553.049999999984
5140 Ai: 15 Gen: 35
5141 Sim Starting
5142 Sim over Total pop = 0 Tick Complete = 5511
    Fitness = 762.850000000001
5143 Ai: 16 Gen: 35
5144 Sim Starting
5145 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
5146 Ai: 17 Gen: 35
5147 Sim Starting
```

```
5148 Sim over Total pop = 0 Tick Complete = 9185
    Fitness = 1451.5999999999665
5149 Ai: 18 Gen: 35
5150 Sim Starting
5151 Sim over Total pop = 0 Tick Complete = 3971
    Fitness = 1184.5499999999895
5152 Ai: 19 Gen: 35
5153 Sim Starting
5154 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 445.5
5155 Ai: 20 Gen: 35
5156 Sim Starting
5157 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 205.6999999999999
5158 Ai: 21 Gen: 35
5159 Sim Starting
5160 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 163.7
5161 Ai: 22 Gen: 35
5162 Sim Starting
5163 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 190.5
5164 Ai: 23 Gen: 35
5165 Sim Starting
5166 Sim over Total pop = 0 Tick Complete = 4213
    Fitness = 1105.999999999939
5167 Ai: 24 Gen: 35
5168 Sim Starting
5169 Sim over Total pop = 0 Tick Complete = 2805
    Fitness = 909.4500000000027
5170 Ai: 25 Gen: 35
5171 Sim Starting
5172 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -202.0
5173 Ai: 26 Gen: 35
5174 Sim Starting
5175 Sim over Total pop = 0 Tick Complete = 781
    Fitness = -11.25
5176 Ai: 27 Gen: 35
5177 Sim Starting
5178 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -176.50000000000003
5179 Ai: 28 Gen: 35
5180 Sim Starting
```

```
5181 Sim over Total pop = 0 Tick Complete = 6435
    Fitness = 459.7500000000037
5182 Ai: 29 Gen: 35
5183 Sim Starting
5184 Sim over Total pop = 0 Tick Complete = 715
    Fitness = -148.85
5185 Ai: 30 Gen: 35
5186 Sim Starting
5187 Sim over Total pop = 0 Tick Complete = 4620
    Fitness = 815.300000000204
5188 Ai: 31 Gen: 35
5189 Sim Starting
5190 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 202.549999999995
5191 Ai: 32 Gen: 35
5192 Sim Starting
5193 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 474.050000000027
5194 Ai: 33 Gen: 35
5195 Sim Starting
5196 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 300.5
5197 Ai: 34 Gen: 35
5198 Sim Starting
5199 Sim over Total pop = 0 Tick Complete = 3025
    Fitness = 673.149999999999
5200 Ai: 35 Gen: 35
5201 Sim Starting
5202 Sim over Total pop = 0 Tick Complete = 2486
    Fitness = 33.4500000000026
5203 Ai: 36 Gen: 35
5204 Sim Starting
5205 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5206 Ai: 37 Gen: 35
5207 Sim Starting
5208 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 423.700000000007
5209 Ai: 38 Gen: 35
5210 Sim Starting
5211 Sim over Total pop = 0 Tick Complete = 539
    Fitness = -196.6
5212 Ai: 39 Gen: 35
5213 Sim Starting
```

```
5214 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 404.55000000000008
5215 Ai: 40 Gen: 35
5216 Sim Starting
5217 Sim over Total pop = 0 Tick Complete = 561
    Fitness = 114.5
5218 Ai: 41 Gen: 35
5219 Sim Starting
5220 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
5221 Ai: 42 Gen: 35
5222 Sim Starting
5223 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
5224 Ai: 43 Gen: 35
5225 Sim Starting
5226 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 184.0
5227 Ai: 44 Gen: 35
5228 Sim Starting
5229 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
5230 Ai: 45 Gen: 35
5231 Sim Starting
5232 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5233 Ai: 46 Gen: 35
5234 Sim Starting
5235 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 595.400000000026
5236 Ai: 47 Gen: 35
5237 Sim Starting
5238 Sim over Total pop = 0 Tick Complete = 4829
    Fitness = 414.400000000063
5239 Ai: 0 Gen: 36
5240 Sim Starting
5241 Sim over Total pop = 0 Tick Complete = 1078
    Fitness = 778.549999999993
5242 Ai: 1 Gen: 36
5243 Sim Starting
5244 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 741.049999999997
5245 Ai: 2 Gen: 36
5246 Sim Starting
```

```
5247 Sim over Total pop = 0 Tick Complete = 836
    Fitness = 325.0
5248 Ai: 3 Gen: 36
5249 Sim Starting
5250 Sim over Total pop = 0 Tick Complete = 1474
    Fitness = 310.1000000000025
5251 Ai: 4 Gen: 36
5252 Sim Starting
5253 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 465.8500000000009
5254 Ai: 5 Gen: 36
5255 Sim Starting
5256 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = 212.0
5257 Ai: 6 Gen: 36
5258 Sim Starting
5259 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 271.0
5260 Ai: 7 Gen: 36
5261 Sim Starting
5262 Sim over Total pop = 0 Tick Complete = 28435
    Fitness = 1623.800000000063
5263 Ai: 8 Gen: 36
5264 Sim Starting
5265 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 245.5
5266 Ai: 9 Gen: 36
5267 Sim Starting
5268 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 415.0
5269 Ai: 10 Gen: 36
5270 Sim Starting
5271 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 223.75
5272 Ai: 11 Gen: 36
5273 Sim Starting
5274 Sim over Total pop = 0 Tick Complete = 47113
    Fitness = 3055.449999999689
5275 Ai: 12 Gen: 36
5276 Sim Starting
5277 Sim over Total pop = 0 Tick Complete = 2717
    Fitness = 320.5
5278 Ai: 13 Gen: 36
5279 Sim Starting
```

```
5280 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 209.9999999999996
5281 Ai: 14 Gen: 36
5282 Sim Starting
5283 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 327.4499999999936
5284 Ai: 15 Gen: 36
5285 Sim Starting
5286 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 224.799999999995
5287 Ai: 16 Gen: 36
5288 Sim Starting
5289 Sim over Total pop = 0 Tick Complete = 1199
    Fitness = -18.79999999999972
5290 Ai: 17 Gen: 36
5291 Sim Starting
5292 Sim over Total pop = 0 Tick Complete = 8096
    Fitness = 282.3499999999971
5293 Ai: 18 Gen: 36
5294 Sim Starting
5295 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
5296 Ai: 19 Gen: 36
5297 Sim Starting
5298 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 350.0
5299 Ai: 20 Gen: 36
5300 Sim Starting
5301 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 301.1000000000006
5302 Ai: 21 Gen: 36
5303 Sim Starting
5304 Sim over Total pop = 0 Tick Complete = 5445
    Fitness = 808.3000000000064
5305 Ai: 22 Gen: 36
5306 Sim Starting
5307 Sim over Total pop = 0 Tick Complete = 6413
    Fitness = 757.550000000002
5308 Ai: 23 Gen: 36
5309 Sim Starting
5310 Sim over Total pop = 0 Tick Complete = 18777
    Fitness = 1007.9500000000266
5311 Ai: 24 Gen: 36
5312 Sim Starting
```

```
5313 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 292.5
5314 Ai: 25 Gen: 36
5315 Sim Starting
5316 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 289.7500000000002
5317 Ai: 26 Gen: 36
5318 Sim Starting
5319 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 876.0499999999986
5320 Ai: 27 Gen: 36
5321 Sim Starting
5322 Sim over Total pop = 0 Tick Complete = 1331
    Fitness = 204.3499999999994
5323 Ai: 28 Gen: 36
5324 Sim Starting
5325 Sim over Total pop = 0 Tick Complete = 1969
    Fitness = 96.9000000000029
5326 Ai: 29 Gen: 36
5327 Sim Starting
5328 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 311.5
5329 Ai: 30 Gen: 36
5330 Sim Starting
5331 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -158.5
5332 Ai: 31 Gen: 36
5333 Sim Starting
5334 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 139.5
5335 Ai: 32 Gen: 36
5336 Sim Starting
5337 Sim over Total pop = 0 Tick Complete = 1375
    Fitness = 674.4500000000029
5338 Ai: 33 Gen: 36
5339 Sim Starting
5340
5341 Name: 2
5342 X: 1065
5343 Y: 330
5344 civpop: 12
5345 trooppop: 9
5346 rawresources: 205.35000000004464
5347 equipment: -14.40000000001228
```

```
5348 rate: 1.7
5349 popraw: 0
5350 popequip: 0.5
5351 %TroopsSupplied: 100
5352 Sim over Total pop = 0 Tick Complete = 6094
    Fitness = 1028.4500000000044
5353 Ai: 34 Gen: 36
5354 Sim Starting
5355 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 119.25
5356 Ai: 35 Gen: 36
5357 Sim Starting
5358 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 366.25
5359 Ai: 36 Gen: 36
5360 Sim Starting
5361 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 160.9500000000005
5362 Ai: 37 Gen: 36
5363 Sim Starting
5364 Sim over Total pop = 0 Tick Complete = 5742
    Fitness = 980.949999999949
5365 Ai: 38 Gen: 36
5366 Sim Starting
5367 Sim over Total pop = 0 Tick Complete = 4136
    Fitness = 425.6500000000001
5368 Ai: 39 Gen: 36
5369 Sim Starting
5370 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 309.649999999999
5371 Ai: 40 Gen: 36
5372 Sim Starting
5373 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 212.5
5374 Ai: 41 Gen: 36
5375 Sim Starting
5376 Sim over Total pop = 0 Tick Complete = 8195
    Fitness = 1128.449999999857
5377 Ai: 42 Gen: 36
5378 Sim Starting
5379 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 553.099999999991
5380 Ai: 43 Gen: 36
5381 Sim Starting
```

```
5382 Sim over Total pop = 0 Tick Complete = 6985
    Fitness = 600.0
5383 Ai: 44 Gen: 36
5384 Sim Starting
5385 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 348.000000000001
5386 Ai: 45 Gen: 36
5387 Sim Starting
5388 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 757.150000000001
5389 Ai: 46 Gen: 36
5390 Sim Starting
5391 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 185.5
5392 Ai: 47 Gen: 36
5393 Sim Starting
5394 Sim over Total pop = 0 Tick Complete = 7095
    Fitness = 782.0
5395 Ai: 48 Gen: 36
5396 Sim Starting
5397 Sim over Total pop = 0 Tick Complete = 7469
    Fitness = 785.200000000158
5398 Ai: 0 Gen: 37
5399 Sim Starting
5400 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
5401 Ai: 1 Gen: 37
5402 Sim Starting
5403 Sim over Total pop = 0 Tick Complete = 3663
    Fitness = 620.650000000002
5404 Ai: 2 Gen: 37
5405 Sim Starting
5406 Sim over Total pop = 0 Tick Complete = 1023
    Fitness = 380.3500000000014
5407 Ai: 3 Gen: 37
5408 Sim Starting
5409 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
5410 Ai: 4 Gen: 37
5411 Sim Starting
5412 Sim over Total pop = 0 Tick Complete = 737
    Fitness = -149.75
5413 Ai: 5 Gen: 37
5414 Sim Starting
```

```
5415 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 346.5999999999999
5416 Ai: 6 Gen: 37
5417 Sim Starting
5418 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 559.7999999999989
5419 Ai: 7 Gen: 37
5420 Sim Starting
5421 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 443.2500000000006
5422 Ai: 8 Gen: 37
5423 Sim Starting
5424 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 207.8999999999998
5425 Ai: 9 Gen: 37
5426 Sim Starting
5427 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 227.5
5428 Ai: 10 Gen: 37
5429 Sim Starting
5430 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 153.0
5431 Ai: 11 Gen: 37
5432 Sim Starting
5433 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 283.5
5434 Ai: 12 Gen: 37
5435 Sim Starting
5436 Sim over Total pop = 0 Tick Complete = 3729
    Fitness = 394.900000000039
5437 Ai: 13 Gen: 37
5438 Sim Starting
5439 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
5440 Ai: 14 Gen: 37
5441 Sim Starting
5442 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 54.9000000000006
5443 Ai: 15 Gen: 37
5444 Sim Starting
5445 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -155.0
5446 Ai: 16 Gen: 37
5447 Sim Starting
```

```
5448 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 2.650000000000034
5449 Ai: 17 Gen: 37
5450 Sim Starting
5451 Sim over Total pop = 0 Tick Complete = 2167
    Fitness = 488.6500000000018
5452 Ai: 18 Gen: 37
5453 Sim Starting
5454 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 188.0500000000004
5455 Ai: 19 Gen: 37
5456 Sim Starting
5457 Sim over Total pop = 0 Tick Complete = 825
    Fitness = -21.5
5458 Ai: 20 Gen: 37
5459 Sim Starting
5460 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -182.25
5461 Ai: 21 Gen: 37
5462 Sim Starting
5463 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 783.8999999999955
5464 Ai: 22 Gen: 37
5465 Sim Starting
5466 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 307.6999999999965
5467 Ai: 23 Gen: 37
5468 Sim Starting
5469 Sim over Total pop = 0 Tick Complete = 3014
    Fitness = 261.1500000000002
5470 Ai: 24 Gen: 37
5471 Sim Starting
5472 Sim over Total pop = 0 Tick Complete = 3366
    Fitness = 924.749999999841
5473 Ai: 25 Gen: 37
5474 Sim Starting
5475 Sim over Total pop = 0 Tick Complete = 6567
    Fitness = 526.6
5476 Ai: 26 Gen: 37
5477 Sim Starting
5478 Sim over Total pop = 0 Tick Complete = 869
    Fitness = 134.10000000000005
5479 Ai: 27 Gen: 37
5480 Sim Starting
```

```
5481 Sim over Total pop = 0 Tick Complete = 3201
    Fitness = 761.6500000000051
5482 Ai: 28 Gen: 37
5483 Sim Starting
5484 Sim over Total pop = 0 Tick Complete = 2079
    Fitness = 643.5499999999979
5485 Ai: 29 Gen: 37
5486 Sim Starting
5487 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 133.0
5488 Ai: 30 Gen: 37
5489 Sim Starting
5490 Sim over Total pop = 0 Tick Complete = 3091
    Fitness = 424.2000000000266
5491 Ai: 31 Gen: 37
5492 Sim Starting
5493 Sim over Total pop = 0 Tick Complete = 4191
    Fitness = 1035.6000000000126
5494 Ai: 32 Gen: 37
5495 Sim Starting
5496 Sim over Total pop = 0 Tick Complete = 2046
    Fitness = 436.3500000000116
5497 Ai: 33 Gen: 37
5498 Sim Starting
5499 Sim over Total pop = 0 Tick Complete = 1760
    Fitness = 156.0500000000035
5500 Ai: 34 Gen: 37
5501 Sim Starting
5502 Sim over Total pop = 0 Tick Complete = 5093
    Fitness = 392.1500000000001
5503 Ai: 35 Gen: 37
5504 Sim Starting
5505 Sim over Total pop = 0 Tick Complete = 4037
    Fitness = 361.4999999999974
5506 Ai: 36 Gen: 37
5507 Sim Starting
5508 Sim over Total pop = 0 Tick Complete = 3949
    Fitness = 832.8500000000006
5509 Ai: 37 Gen: 37
5510 Sim Starting
5511 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
5512 Ai: 38 Gen: 37
5513 Sim Starting
```

```
5514 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 317.94999999999914
5515 Ai: 39 Gen: 37
5516 Sim Starting
5517 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 286.5
5518 Ai: 40 Gen: 37
5519 Sim Starting
5520 Sim over Total pop = 0 Tick Complete = 3300
    Fitness = 321.149999999985
5521 Ai: 41 Gen: 37
5522 Sim Starting
5523 Sim over Total pop = 0 Tick Complete = 4840
    Fitness = 624.249999999998
5524 Ai: 42 Gen: 37
5525 Sim Starting
5526 Sim over Total pop = 0 Tick Complete = 4169
    Fitness = 336.1499999999765
5527 Ai: 43 Gen: 37
5528 Sim Starting
5529 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 79.95000000000005
5530 Ai: 44 Gen: 37
5531 Sim Starting
5532 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 109.35000000000005
5533 Ai: 45 Gen: 37
5534 Sim Starting
5535 Sim over Total pop = 0 Tick Complete = 9955
    Fitness = 1574.199999999969
5536 Ai: 46 Gen: 37
5537 Sim Starting
5538 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
5539 Ai: 47 Gen: 37
5540 Sim Starting
5541 Sim over Total pop = 0 Tick Complete = 5104
    Fitness = 457.2000000000493
5542 Ai: 0 Gen: 38
5543 Sim Starting
5544 Sim over Total pop = 0 Tick Complete = 5093
    Fitness = 324.0499999999984
5545 Ai: 1 Gen: 38
5546 Sim Starting
```

```
5547 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
5548 Ai: 2 Gen: 38
5549 Sim Starting
5550 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -149.0
5551 Ai: 3 Gen: 38
5552 Sim Starting
5553 Sim over Total pop = 0 Tick Complete = 4301
    Fitness = 625.2999999999928
5554 Ai: 4 Gen: 38
5555 Sim Starting
5556 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 687.0500000000004
5557 Ai: 5 Gen: 38
5558 Sim Starting
5559 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 225.0
5560 Ai: 6 Gen: 38
5561 Sim Starting
5562 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = 616.2
5563 Ai: 7 Gen: 38
5564 Sim Starting
5565 Sim over Total pop = 0 Tick Complete = 792
    Fitness = -9.69999999999898
5566 Ai: 8 Gen: 38
5567 Sim Starting
5568 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 322.0
5569 Ai: 9 Gen: 38
5570 Sim Starting
5571 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 232.5
5572 Ai: 10 Gen: 38
5573 Sim Starting
5574 Sim over Total pop = 0 Tick Complete = 891
    Fitness = 321.2000000000005
5575 Ai: 11 Gen: 38
5576 Sim Starting
5577 Sim over Total pop = 0 Tick Complete = 3586
    Fitness = 746.799999999972
5578 Ai: 12 Gen: 38
5579 Sim Starting
```

```
5580 Sim over Total pop = 0 Tick Complete = 1364
    Fitness = 255.5
5581 Ai: 13 Gen: 38
5582 Sim Starting
5583 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 167.6499999999998
5584 Ai: 14 Gen: 38
5585 Sim Starting
5586 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 200.2500000000001
5587 Ai: 15 Gen: 38
5588 Sim Starting
5589 Sim over Total pop = 0 Tick Complete = 1100
    Fitness = 582.0500000000002
5590 Ai: 16 Gen: 38
5591 Sim Starting
5592 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 221.6000000000003
5593 Ai: 17 Gen: 38
5594 Sim Starting
5595 Sim over Total pop = 0 Tick Complete = 1265
    Fitness = 226.1999999999942
5596 Ai: 18 Gen: 38
5597 Sim Starting
5598 Sim over Total pop = 0 Tick Complete = 6490
    Fitness = 1125.7000000000005
5599 Ai: 19 Gen: 38
5600 Sim Starting
5601 Sim over Total pop = 0 Tick Complete = 9504
    Fitness = 1167.4499999999928
5602 Ai: 20 Gen: 38
5603 Sim Starting
5604 Sim over Total pop = 0 Tick Complete = 8118
    Fitness = 967.750000000209
5605 Ai: 21 Gen: 38
5606 Sim Starting
5607 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 440.699999999996
5608 Ai: 22 Gen: 38
5609 Sim Starting
5610 Sim over Total pop = 0 Tick Complete = 3190
    Fitness = 726.949999999992
5611 Ai: 23 Gen: 38
5612 Sim Starting
```

```
5613 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 331.4
5614 Ai: 24 Gen: 38
5615 Sim Starting
5616 Sim over Total pop = 0 Tick Complete = 5907
    Fitness = 703.799999999964
5617 Ai: 25 Gen: 38
5618 Sim Starting
5619 Sim over Total pop = 0 Tick Complete = 4950
    Fitness = 683.14999999998
5620 Ai: 26 Gen: 38
5621 Sim Starting
5622 Sim over Total pop = 0 Tick Complete = 1452
    Fitness = 307.349999999997
5623 Ai: 27 Gen: 38
5624 Sim Starting
5625 Sim over Total pop = 0 Tick Complete = 69861
    Fitness = 3940.399999995835
5626 Ai: 28 Gen: 38
5627 Sim Starting
5628 Sim over Total pop = 0 Tick Complete = 2409
    Fitness = 847.350000000025
5629 Ai: 29 Gen: 38
5630 Sim Starting
5631 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 159.7000000000005
5632 Ai: 30 Gen: 38
5633 Sim Starting
5634 Sim over Total pop = 0 Tick Complete = 1518
    Fitness = 345.100000000001
5635 Ai: 31 Gen: 38
5636 Sim Starting
5637 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 81.0
5638 Ai: 32 Gen: 38
5639 Sim Starting
5640 Sim over Total pop = 0 Tick Complete = 4158
    Fitness = 728.7500000000059
5641 Ai: 33 Gen: 38
5642 Sim Starting
5643 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 622.0000000000016
5644 Ai: 34 Gen: 38
5645 Sim Starting
```

```
5646 Sim over Total pop = 0 Tick Complete = 13970
    Fitness = 838.1999999999805
5647 Ai: 35 Gen: 38
5648 Sim Starting
5649 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
5650 Ai: 36 Gen: 38
5651 Sim Starting
5652 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 219.0
5653 Ai: 37 Gen: 38
5654 Sim Starting
5655 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 397.0
5656 Ai: 38 Gen: 38
5657 Sim Starting
5658 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 508.6999999999936
5659 Ai: 39 Gen: 38
5660 Sim Starting
5661 Sim over Total pop = 0 Tick Complete = 825
    Fitness = 419.25
5662 Ai: 40 Gen: 38
5663 Sim Starting
5664 Sim over Total pop = 0 Tick Complete = 2750
    Fitness = 727.8000000000036
5665 Ai: 41 Gen: 38
5666 Sim Starting
5667 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 335.7999999999983
5668 Ai: 42 Gen: 38
5669 Sim Starting
5670 Sim over Total pop = 0 Tick Complete = 9163
    Fitness = 738.5999999999998
5671 Ai: 43 Gen: 38
5672 Sim Starting
5673 Sim over Total pop = 0 Tick Complete = 27445
    Fitness = 2227.6500000001574
5674 Ai: 44 Gen: 38
5675 Sim Starting
5676 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 108.0
5677 Ai: 45 Gen: 38
5678 Sim Starting
```

```
5679 Sim over Total pop = 0 Tick Complete = 16819
    Fitness = 899.2999999999993
5680 Ai: 46 Gen: 38
5681 Sim Starting
5682 Sim over Total pop = 0 Tick Complete = 4939
    Fitness = 694.6500000000103
5683 Ai: 47 Gen: 38
5684 Sim Starting
5685 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 151.0000000000006
5686 Ai: 48 Gen: 38
5687 Sim Starting
5688 Sim over Total pop = 0 Tick Complete = 8514
    Fitness = 965.499999999986
5689 Ai: 0 Gen: 39
5690 Sim Starting
5691 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 221.0
5692 Ai: 1 Gen: 39
5693 Sim Starting
5694 Sim over Total pop = 0 Tick Complete = 12991
    Fitness = 783.200000000033
5695 Ai: 2 Gen: 39
5696 Sim Starting
5697 Sim over Total pop = 0 Tick Complete = 5786
    Fitness = 705.499999999985
5698 Ai: 3 Gen: 39
5699 Sim Starting
5700 Sim over Total pop = 0 Tick Complete = 7513
    Fitness = 912.499999999972
5701 Ai: 4 Gen: 39
5702 Sim Starting
5703 Sim over Total pop = 0 Tick Complete = 3707
    Fitness = 382.799999999998
5704 Ai: 5 Gen: 39
5705 Sim Starting
5706 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -131.4
5707 Ai: 6 Gen: 39
5708 Sim Starting
5709 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 346.9
5710 Ai: 7 Gen: 39
5711 Sim Starting
```

```
5712 Sim over Total pop = 0 Tick Complete = 3256
      Fitness = 620.5499999999994
5713 Ai: 8 Gen: 39
5714 Sim Starting
5715 Sim over Total pop = 0 Tick Complete = 682
      Fitness = 256.0
5716 Ai: 9 Gen: 39
5717 Sim Starting
5718 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 322.5
5719 Ai: 10 Gen: 39
5720 Sim Starting
5721 Sim over Total pop = 0 Tick Complete = 979
      Fitness = 224.5
5722 Ai: 11 Gen: 39
5723 Sim Starting
5724 Sim over Total pop = 0 Tick Complete = 770
      Fitness = 323.65
5725 Ai: 12 Gen: 39
5726 Sim Starting
5727 Sim over Total pop = 0 Tick Complete = 1034
      Fitness = 294.05000000000007
5728 Ai: 13 Gen: 39
5729 Sim Starting
5730 Sim over Total pop = 0 Tick Complete = 4356
      Fitness = 593.3000000000043
5731 Ai: 14 Gen: 39
5732 Sim Starting
5733 Sim over Total pop = 0 Tick Complete = 649
      Fitness = 183.0
5734 Ai: 15 Gen: 39
5735 Sim Starting
5736 Sim over Total pop = 0 Tick Complete = 572
      Fitness = 83.0
5737 Ai: 16 Gen: 39
5738 Sim Starting
5739 Sim over Total pop = 0 Tick Complete = 638
      Fitness = 311.5
5740 Ai: 17 Gen: 39
5741 Sim Starting
5742 Sim over Total pop = 0 Tick Complete = 517
      Fitness = -200.2
5743 Ai: 18 Gen: 39
5744 Sim Starting
```

```
5745 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 336.5999999999999
5746 Ai: 19 Gen: 39
5747 Sim Starting
5748 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 66.5999999999995
5749 Ai: 20 Gen: 39
5750 Sim Starting
5751 Sim over Total pop = 0 Tick Complete = 12166
    Fitness = 1461.8000000000336
5752 Ai: 21 Gen: 39
5753 Sim Starting
5754 Sim over Total pop = 0 Tick Complete = 1694
    Fitness = 444.0499999999984
5755 Ai: 22 Gen: 39
5756 Sim Starting
5757 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 840.2000000000003
5758 Ai: 23 Gen: 39
5759 Sim Starting
5760 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 554.9500000000006
5761 Ai: 24 Gen: 39
5762 Sim Starting
5763 Sim over Total pop = 0 Tick Complete = 2684
    Fitness = 860.8000000000053
5764 Ai: 25 Gen: 39
5765 Sim Starting
5766 Sim over Total pop = 0 Tick Complete = 5984
    Fitness = 953.0499999999921
5767 Ai: 26 Gen: 39
5768 Sim Starting
5769 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 272.95
5770 Ai: 27 Gen: 39
5771 Sim Starting
5772 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -191.2499999999997
5773 Ai: 28 Gen: 39
5774 Sim Starting
5775 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 210.75000000000026
5776 Ai: 29 Gen: 39
5777 Sim Starting
```

```
5778 Sim over Total pop = 0 Tick Complete = 2167
      Fitness = 246.80000000000018
5779 Ai: 30 Gen: 39
5780 Sim Starting
5781 Sim over Total pop = 0 Tick Complete = 16544
      Fitness = 1005.0500000000279
5782 Ai: 31 Gen: 39
5783 Sim Starting
5784 Sim over Total pop = 0 Tick Complete = 1738
      Fitness = 499.1499999999992
5785 Ai: 32 Gen: 39
5786 Sim Starting
5787 Sim over Total pop = 0 Tick Complete = 880
      Fitness = 74.1000000000014
5788 Ai: 33 Gen: 39
5789 Sim Starting
5790 Sim over Total pop = 0 Tick Complete = 649
      Fitness = 96.8999999999998
5791 Ai: 34 Gen: 39
5792 Sim Starting
5793 Sim over Total pop = 0 Tick Complete = 605
      Fitness = 6.4000000000002
5794 Ai: 35 Gen: 39
5795 Sim Starting
5796 Sim over Total pop = 0 Tick Complete = 2156
      Fitness = 165.5
5797 Ai: 36 Gen: 39
5798 Sim Starting
5799 Sim over Total pop = 0 Tick Complete = 7799
      Fitness = 931.1999999999998
5800 Ai: 37 Gen: 39
5801 Sim Starting
5802 Sim over Total pop = 0 Tick Complete = 7678
      Fitness = 456.9999999999998
5803 Ai: 38 Gen: 39
5804 Sim Starting
5805 Sim over Total pop = 0 Tick Complete = 6182
      Fitness = 1246.4999999999625
5806 Ai: 39 Gen: 39
5807 Sim Starting
5808 Sim over Total pop = 0 Tick Complete = 17325
      Fitness = 959.8000000000001
5809 Ai: 40 Gen: 39
5810 Sim Starting
```

```
5811 Sim over Total pop = 0 Tick Complete = 2761
    Fitness = 726.2500000000036
5812 Ai: 41 Gen: 39
5813 Sim Starting
5814 Sim over Total pop = 0 Tick Complete = 2662
    Fitness = 654.850000000002
5815 Ai: 42 Gen: 39
5816 Sim Starting
5817 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5818 Ai: 43 Gen: 39
5819 Sim Starting
5820 Sim over Total pop = 0 Tick Complete = 979
    Fitness = 165.9000000000003
5821 Ai: 44 Gen: 39
5822 Sim Starting
5823 Sim over Total pop = 0 Tick Complete = 1320
    Fitness = 11.20000000000017
5824 Ai: 45 Gen: 39
5825 Sim Starting
5826 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5827 Ai: 46 Gen: 39
5828 Sim Starting
5829 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5830 Ai: 47 Gen: 39
5831 Sim Starting
5832 Sim over Total pop = 0 Tick Complete = 8085
    Fitness = 491.4499999999993
5833 Ai: 48 Gen: 39
5834 Sim Starting
5835 Sim over Total pop = 0 Tick Complete = 990
    Fitness = 538.349999999999
5836 Ai: 49 Gen: 39
5837 Sim Starting
5838 Sim over Total pop = 0 Tick Complete = 6490
    Fitness = 915.5500000000051
5839 Ai: 0 Gen: 40
5840 Sim Starting
5841 Sim over Total pop = 0 Tick Complete = 2970
    Fitness = 515.9000000000038
5842 Ai: 1 Gen: 40
5843 Sim Starting
```

```
5844 Sim over Total pop = 0 Tick Complete = 1650
    Fitness = 407.1000000000004
5845 Ai: 2 Gen: 40
5846 Sim Starting
5847 Sim over Total pop = 0 Tick Complete = 1815
    Fitness = 444.8499999999992
5848 Ai: 3 Gen: 40
5849 Sim Starting
5850 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 153.2999999999995
5851 Ai: 4 Gen: 40
5852 Sim Starting
5853 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 140.3999999999998
5854 Ai: 5 Gen: 40
5855 Sim Starting
5856 Sim over Total pop = 0 Tick Complete = 638
    Fitness = -136.6000000000002
5857 Ai: 6 Gen: 40
5858 Sim Starting
5859 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 427.4500000000005
5860 Ai: 7 Gen: 40
5861 Sim Starting
5862 Sim over Total pop = 0 Tick Complete = 847
    Fitness = 324.6500000000015
5863 Ai: 8 Gen: 40
5864 Sim Starting
5865 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 636.949999999994
5866 Ai: 9 Gen: 40
5867 Sim Starting
5868 Sim over Total pop = 0 Tick Complete = 7359
    Fitness = 608.75
5869 Ai: 10 Gen: 40
5870 Sim Starting
5871 Sim over Total pop = 0 Tick Complete = 4444
    Fitness = 1016.200000000012
5872 Ai: 11 Gen: 40
5873 Sim Starting
5874 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
5875 Ai: 12 Gen: 40
5876 Sim Starting
```

```
5877 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 248.19999999999987
5878 Ai: 13 Gen: 40
5879 Sim Starting
5880 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 477.650000000001
5881 Ai: 14 Gen: 40
5882 Sim Starting
5883 Sim over Total pop = 0 Tick Complete = 7029
    Fitness = 381.700000000035
5884 Ai: 15 Gen: 40
5885 Sim Starting
5886 Sim over Total pop = 0 Tick Complete = 9900
    Fitness = 382.499999999971
5887 Ai: 16 Gen: 40
5888 Sim Starting
5889 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -123.0
5890 Ai: 17 Gen: 40
5891 Sim Starting
5892 Sim over Total pop = 0 Tick Complete = 5203
    Fitness = 431.8500000000474
5893 Ai: 18 Gen: 40
5894 Sim Starting
5895 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -105.65
5896 Ai: 19 Gen: 40
5897 Sim Starting
5898 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 212.5
5899 Ai: 20 Gen: 40
5900 Sim Starting
5901 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 79.6000000000036
5902 Ai: 21 Gen: 40
5903 Sim Starting
5904 Sim over Total pop = 0 Tick Complete = 11297
    Fitness = 503.0499999999245
5905 Ai: 22 Gen: 40
5906 Sim Starting
5907 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 116.55000000000001
5908 Ai: 23 Gen: 40
5909 Sim Starting
```

```
5910 Sim over Total pop = 0 Tick Complete = 10758
    Fitness = 1326.399999999964
5911 Ai: 24 Gen: 40
5912 Sim Starting
5913 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 108.5
5914 Ai: 25 Gen: 40
5915 Sim Starting
5916 Sim over Total pop = 0 Tick Complete = 1507
    Fitness = 176.599999999996
5917 Ai: 26 Gen: 40
5918 Sim Starting
5919 Sim over Total pop = 0 Tick Complete = 14795
    Fitness = 2434.799999999801
5920 Ai: 27 Gen: 40
5921 Sim Starting
5922 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 159.350000000003
5923 Ai: 28 Gen: 40
5924 Sim Starting
5925 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 426.75
5926 Ai: 29 Gen: 40
5927 Sim Starting
5928 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = 234.3499999999997
5929 Ai: 30 Gen: 40
5930 Sim Starting
5931 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5932 Ai: 31 Gen: 40
5933 Sim Starting
5934 Sim over Total pop = 0 Tick Complete = 2453
    Fitness = 285.0500000000024
5935 Ai: 32 Gen: 40
5936 Sim Starting
5937 Sim over Total pop = 0 Tick Complete = 5302
    Fitness = 1634.649999999437
5938 Ai: 33 Gen: 40
5939 Sim Starting
5940 Sim over Total pop = 0 Tick Complete = 4521
    Fitness = 783.6000000000039
5941 Ai: 34 Gen: 40
5942 Sim Starting
```

```
5943 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 114.10000000000002
5944 Ai: 35 Gen: 40
5945 Sim Starting
5946 Sim over Total pop = 0 Tick Complete = 3971
    Fitness = 621.1999999999992
5947 Ai: 36 Gen: 40
5948 Sim Starting
5949 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
5950 Ai: 37 Gen: 40
5951 Sim Starting
5952 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 116.35000000000002
5953 Ai: 38 Gen: 40
5954 Sim Starting
5955 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
5956 Ai: 39 Gen: 40
5957 Sim Starting
5958 Sim over Total pop = 0 Tick Complete = 1133
    Fitness = 315.7500000000045
5959 Ai: 40 Gen: 40
5960 Sim Starting
5961 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 134.09999999999997
5962 Ai: 41 Gen: 40
5963 Sim Starting
5964 Sim over Total pop = 0 Tick Complete = 11000
    Fitness = 1434.099999999704
5965 Ai: 42 Gen: 40
5966 Sim Starting
5967 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 576.799999999988
5968 Ai: 43 Gen: 40
5969 Sim Starting
5970 Sim over Total pop = 0 Tick Complete = 1287
    Fitness = 594.849999999991
5971 Ai: 44 Gen: 40
5972 Sim Starting
5973 Sim over Total pop = 0 Tick Complete = 880
    Fitness = -117.80000000000003
5974 Ai: 45 Gen: 40
5975 Sim Starting
```

```
5976 Sim over Total pop = 0 Tick Complete = 1936
    Fitness = 400.95000000000107
5977 Ai: 46 Gen: 40
5978 Sim Starting
5979 Sim over Total pop = 0 Tick Complete = 2662
    Fitness = 464.9000000000043
5980 Ai: 47 Gen: 40
5981 Sim Starting
5982 Sim over Total pop = 0 Tick Complete = 18018
    Fitness = 836.8000000000211
5983 Ai: 48 Gen: 40
5984 Sim Starting
5985 Sim over Total pop = 0 Tick Complete = 4851
    Fitness = 1170.550000000003
5986 Ai: 49 Gen: 40
5987 Sim Starting
5988 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 60.90000000000176
5989 Ai: 50 Gen: 40
5990 Sim Starting
5991 Sim over Total pop = 0 Tick Complete = 6380
    Fitness = 634.749999999883
5992 Ai: 0 Gen: 41
5993 Sim Starting
5994 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 113.9499999999962
5995 Ai: 1 Gen: 41
5996 Sim Starting
5997 Sim over Total pop = 0 Tick Complete = 8635
    Fitness = 638.2000000000053
5998 Ai: 2 Gen: 41
5999 Sim Starting
6000 Sim over Total pop = 0 Tick Complete = 3850
    Fitness = 554.0000000000078
6001 Ai: 3 Gen: 41
6002 Sim Starting
6003 Sim over Total pop = 0 Tick Complete = 3575
    Fitness = 379.149999999999
6004 Ai: 4 Gen: 41
6005 Sim Starting
6006 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 149.2999999999997
6007 Ai: 5 Gen: 41
6008 Sim Starting
```

```
6009 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 182.19999999999965
6010 Ai: 6 Gen: 41
6011 Sim Starting
6012 Sim over Total pop = 0 Tick Complete = 737
    Fitness = -15.30000000000011
6013 Ai: 7 Gen: 41
6014 Sim Starting
6015 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 508.7000000000013
6016 Ai: 8 Gen: 41
6017 Sim Starting
6018 Sim over Total pop = 0 Tick Complete = 7436
    Fitness = 1202.3500000000058
6019 Ai: 9 Gen: 41
6020 Sim Starting
6021 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -203.9
6022 Ai: 10 Gen: 41
6023 Sim Starting
6024 Sim over Total pop = 0 Tick Complete = 2145
    Fitness = 702.5999999999975
6025 Ai: 11 Gen: 41
6026 Sim Starting
6027 Sim over Total pop = 0 Tick Complete = 24145
    Fitness = 1692.849999999915
6028 Ai: 12 Gen: 41
6029 Sim Starting
6030 Sim over Total pop = 0 Tick Complete = 1925
    Fitness = 370.4000000000011
6031 Ai: 13 Gen: 41
6032 Sim Starting
6033 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 251.8999999999998
6034 Ai: 14 Gen: 41
6035 Sim Starting
6036 Sim over Total pop = 0 Tick Complete = 1386
    Fitness = 481.6999999999997
6037 Ai: 15 Gen: 41
6038 Sim Starting
6039 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
6040 Ai: 16 Gen: 41
6041 Sim Starting
```

```
6042 Sim over Total pop = 0 Tick Complete = 4631
    Fitness = 563.8999999999969
6043 Ai: 17 Gen: 41
6044 Sim Starting
6045 Sim over Total pop = 0 Tick Complete = 880
    Fitness = 421.1499999999986
6046 Ai: 18 Gen: 41
6047 Sim Starting
6048 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 383.0
6049 Ai: 19 Gen: 41
6050 Sim Starting
6051 Sim over Total pop = 0 Tick Complete = 968
    Fitness = 613.0500000000003
6052 Ai: 20 Gen: 41
6053 Sim Starting
6054 Sim over Total pop = 0 Tick Complete = 1155
    Fitness = 358.25
6055 Ai: 21 Gen: 41
6056 Sim Starting
6057 Sim over Total pop = 0 Tick Complete = 3421
    Fitness = 542.1499999999987
6058 Ai: 22 Gen: 41
6059 Sim Starting
6060 Sim over Total pop = 0 Tick Complete = 4983
    Fitness = 315.29999999999785
6061 Ai: 23 Gen: 41
6062 Sim Starting
6063 Sim over Total pop = 0 Tick Complete = 6017
    Fitness = 233.9000000000015
6064 Ai: 24 Gen: 41
6065 Sim Starting
6066 Sim over Total pop = 0 Tick Complete = 616
    Fitness = 95.0999999999997
6067 Ai: 25 Gen: 41
6068 Sim Starting
6069 Sim over Total pop = 0 Tick Complete = 11341
    Fitness = 682.5000000000064
6070 Ai: 26 Gen: 41
6071 Sim Starting
6072 Sim over Total pop = 0 Tick Complete = 12188
    Fitness = 924.0000000000251
6073 Ai: 27 Gen: 41
6074 Sim Starting
```

```
6075 Sim over Total pop = 0 Tick Complete = 4202
    Fitness = 596.5499999999992
6076 Ai: 28 Gen: 41
6077 Sim Starting
6078 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -202.2
6079 Ai: 29 Gen: 41
6080 Sim Starting
6081 Sim over Total pop = 0 Tick Complete = 5819
    Fitness = 767.499999999918
6082 Ai: 30 Gen: 41
6083 Sim Starting
6084 Sim over Total pop = 0 Tick Complete = 15620
    Fitness = 1917.9000000001167
6085 Ai: 31 Gen: 41
6086 Sim Starting
6087 Sim over Total pop = 0 Tick Complete = 1089
    Fitness = -139.35000000000002
6088 Ai: 32 Gen: 41
6089 Sim Starting
6090 Sim over Total pop = 0 Tick Complete = 75834
    Fitness = 4970.200000000155
6091 Ai: 33 Gen: 41
6092 Sim Starting
6093 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6094 Ai: 34 Gen: 41
6095 Sim Starting
6096 Sim over Total pop = 0 Tick Complete = 583
    Fitness = 130.5
6097 Ai: 35 Gen: 41
6098 Sim Starting
6099 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
6100 Ai: 36 Gen: 41
6101 Sim Starting
6102 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
6103 Ai: 37 Gen: 41
6104 Sim Starting
6105 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 132.25000000000006
6106 Ai: 38 Gen: 41
6107 Sim Starting
```

```
6108 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 113.5
6109 Ai: 39 Gen: 41
6110 Sim Starting
6111 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6112 Ai: 40 Gen: 41
6113 Sim Starting
6114 Sim over Total pop = 0 Tick Complete = 9295
    Fitness = 969.7500000000239
6115 Ai: 41 Gen: 41
6116 Sim Starting
6117 Sim over Total pop = 0 Tick Complete = 3201
    Fitness = 604.6000000000017
6118 Ai: 42 Gen: 41
6119 Sim Starting
6120 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 31.250000000000178
6121 Ai: 43 Gen: 41
6122 Sim Starting
6123 Sim over Total pop = 0 Tick Complete = 3135
    Fitness = 284.0499999999836
6124 Ai: 44 Gen: 41
6125 Sim Starting
6126 Sim over Total pop = 0 Tick Complete = 1353
    Fitness = -64.8000000000014
6127 Ai: 45 Gen: 41
6128 Sim Starting
6129 Sim over Total pop = 0 Tick Complete = 6578
    Fitness = 988.049999999774
6130 Ai: 46 Gen: 41
6131 Sim Starting
6132 Sim over Total pop = 0 Tick Complete = 39292
    Fitness = 2715.749999997594
6133 Ai: 47 Gen: 41
6134 Sim Starting
6135 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 289.0
6136 Ai: 48 Gen: 41
6137 Sim Starting
6138 Sim over Total pop = 0 Tick Complete = 3905
    Fitness = 455.5500000000038
6139 Ai: 0 Gen: 42
6140 Sim Starting
```

```
6141 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 235.0
6142 Ai: 1 Gen: 42
6143 Sim Starting
6144 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 290.0
6145 Ai: 2 Gen: 42
6146 Sim Starting
6147 Sim over Total pop = 0 Tick Complete = 737
    Fitness = 235.14999999999998
6148 Ai: 3 Gen: 42
6149 Sim Starting
6150 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 265.25
6151 Ai: 4 Gen: 42
6152 Sim Starting
6153 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -124.7
6154 Ai: 5 Gen: 42
6155 Sim Starting
6156 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 174.0
6157 Ai: 6 Gen: 42
6158 Sim Starting
6159 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 208.4000000000002
6160 Ai: 7 Gen: 42
6161 Sim Starting
6162 Sim over Total pop = 0 Tick Complete = 2706
    Fitness = 204.100000000001
6163 Ai: 8 Gen: 42
6164 Sim Starting
6165 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 584.1500000000042
6166 Ai: 9 Gen: 42
6167 Sim Starting
6168 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 439.25
6169 Ai: 10 Gen: 42
6170 Sim Starting
6171 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -155.2
6172 Ai: 11 Gen: 42
6173 Sim Starting
```

```
6174 Sim over Total pop = 0 Tick Complete = 22352
    Fitness = 1488.2499999999668
6175 Ai: 12 Gen: 42
6176 Sim Starting
6177 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -197.45
6178 Ai: 13 Gen: 42
6179 Sim Starting
6180 Sim over Total pop = 0 Tick Complete = 2321
    Fitness = 13.2499999999988
6181 Ai: 14 Gen: 42
6182 Sim Starting
6183 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = -152.8500000000004
6184 Ai: 15 Gen: 42
6185 Sim Starting
6186 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
6187 Ai: 16 Gen: 42
6188 Sim Starting
6189 Sim over Total pop = 0 Tick Complete = 858
    Fitness = -148.25
6190 Ai: 17 Gen: 42
6191 Sim Starting
6192 Sim over Total pop = 0 Tick Complete = 15334
    Fitness = 1188.7500000000418
6193 Ai: 18 Gen: 42
6194 Sim Starting
6195 Sim over Total pop = 0 Tick Complete = 10395
    Fitness = 1321.3000000000304
6196 Ai: 19 Gen: 42
6197 Sim Starting
6198 Sim over Total pop = 0 Tick Complete = 2860
    Fitness = 427.7500000000006
6199 Ai: 20 Gen: 42
6200 Sim Starting
6201 Sim over Total pop = 0 Tick Complete = 38995
    Fitness = 1898.399999998907
6202 Ai: 21 Gen: 42
6203 Sim Starting
6204 Sim over Total pop = 0 Tick Complete = 29018
    Fitness = 1483.4500000000428
6205 Ai: 22 Gen: 42
6206 Sim Starting
```

```
6207 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -156.85000000000002
6208 Ai: 23 Gen: 42
6209 Sim Starting
6210 Sim over Total pop = 0 Tick Complete = 814
    Fitness = -112.99999999999999
6211 Ai: 24 Gen: 42
6212 Sim Starting
6213 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -201.05
6214 Ai: 25 Gen: 42
6215 Sim Starting
6216 Sim over Total pop = 0 Tick Complete = 3245
    Fitness = 552.1500000000051
6217 Ai: 26 Gen: 42
6218 Sim Starting
6219 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -110.64999999999999
6220 Ai: 27 Gen: 42
6221 Sim Starting
6222 Sim over Total pop = 0 Tick Complete = 1463
    Fitness = 260.6500000000003
6223 Ai: 28 Gen: 42
6224 Sim Starting
6225 Sim over Total pop = 0 Tick Complete = 4015
    Fitness = 119.8000000000001
6226 Ai: 29 Gen: 42
6227 Sim Starting
6228 Sim over Total pop = 0 Tick Complete = 1551
    Fitness = 230.2000000000024
6229 Ai: 30 Gen: 42
6230 Sim Starting
6231 Sim over Total pop = 0 Tick Complete = 2343
    Fitness = 456.999999999999
6232 Ai: 31 Gen: 42
6233 Sim Starting
6234 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
6235 Ai: 32 Gen: 42
6236 Sim Starting
6237 Sim over Total pop = 0 Tick Complete = 1012
    Fitness = -146.15
6238 Ai: 33 Gen: 42
6239 Sim Starting
```

```
6240 Sim over Total pop = 0 Tick Complete = 10450
    Fitness = 773.4000000000196
6241 Ai: 34 Gen: 42
6242 Sim Starting
6243 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6244 Ai: 35 Gen: 42
6245 Sim Starting
6246 Sim over Total pop = 0 Tick Complete = 23936
    Fitness = 1444.7000000000353
6247 Ai: 36 Gen: 42
6248 Sim Starting
6249 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 141.0
6250 Ai: 37 Gen: 42
6251 Sim Starting
6252 Sim over Total pop = 0 Tick Complete = 11132
    Fitness = 979.0000000000275
6253 Ai: 38 Gen: 42
6254 Sim Starting
6255 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6256 Ai: 39 Gen: 42
6257 Sim Starting
6258 Sim over Total pop = 0 Tick Complete = 54186
    Fitness = 3962.6500000003425
6259 Ai: 40 Gen: 42
6260 Sim Starting
6261 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 344.5
6262 Ai: 41 Gen: 42
6263 Sim Starting
6264 Sim over Total pop = 0 Tick Complete = 9504
    Fitness = 992.1500000000219
6265 Ai: 42 Gen: 42
6266 Sim Starting
6267 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 336.5500000000004
6268 Ai: 43 Gen: 42
6269 Sim Starting
6270 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 413.5000000000011
6271 Ai: 44 Gen: 42
6272 Sim Starting
```

```
6273 Sim over Total pop = 0 Tick Complete = 1903
    Fitness = 422.24999999999915
6274 Ai: 45 Gen: 42
6275 Sim Starting
6276 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 345.35
6277 Ai: 46 Gen: 42
6278 Sim Starting
6279 Sim over Total pop = 0 Tick Complete = 9020
    Fitness = 752.0500000000125
6280 Ai: 47 Gen: 42
6281 Sim Starting
6282 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 128.5999999999994
6283 Ai: 48 Gen: 42
6284 Sim Starting
6285 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 295.0
6286 Ai: 49 Gen: 42
6287 Sim Starting
6288 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6289 Ai: 0 Gen: 43
6290 Sim Starting
6291 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 169.0
6292 Ai: 1 Gen: 43
6293 Sim Starting
6294 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 275.75
6295 Ai: 2 Gen: 43
6296 Sim Starting
6297 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 318.5499999999995
6298 Ai: 3 Gen: 43
6299 Sim Starting
6300 Sim over Total pop = 0 Tick Complete = 3586
    Fitness = 29.500000000000114
6301 Ai: 4 Gen: 43
6302 Sim Starting
6303 Sim over Total pop = 0 Tick Complete = 671
    Fitness = 227.5
6304 Ai: 5 Gen: 43
6305 Sim Starting
```

```
6306 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 235.30000000000018
6307 Ai: 6 Gen: 43
6308 Sim Starting
6309
6310 Name: 5
6311 X: 807
6312 Y: 541
6313 civpop: 2
6314 trooppop: 1
6315 rawresources: 9013.90000000002
6316 equipment: 2863.0
6317 rate: 1.0
6318 popraw: 0.5
6319 popequip: 0
6320 %TroopsSupplied: 100
6321
6322 Name: 3
6323 X: 539
6324 Y: 199
6325 civpop: 2
6326 trooppop: 1
6327 rawresources: 145.8
6328 equipment: 83.8000000000526
6329 rate: 1.4
6330 popraw: 0
6331 popequip: 0.5
6332 %TroopsSupplied: 100
6333
6334 Name: 3
6335 X: 539
6336 Y: 199
6337 civpop: 2
6338 trooppop: 1
6339 rawresources: 192.999999999997
6340 equipment: 82.8000000000531
6341 rate: 1.4
6342 popraw: 0
6343 popequip: 0.5
6344 %TroopsSupplied: 100
6345
6346 Name: 3
6347 X: 539
6348 Y: 199
```

```
6349 civpop: 2
6350 trooppop: 1
6351 rawresources: 0
6352 equipment: 80.6000000000535
6353 rate: 1.4
6354 popraw: 0
6355 popequip: 0.5
6356 %TroopsSupplied: 100
6357
6358 Name: 3
6359 X: 539
6360 Y: 199
6361 civpop: 2
6362 trooppop: 1
6363 rawresources: 0
6364 equipment: 77.6000000000535
6365 rate: 1.4
6366 popraw: 0
6367 popequip: 0.5
6368 %TroopsSupplied: 100
6369
6370 Name: 3
6371 X: 539
6372 Y: 199
6373 civpop: 2
6374 trooppop: 1
6375 rawresources: 240.1999999999996
6376 equipment: 79.4000000000539
6377 rate: 1.4
6378 popraw: 0
6379 popequip: 0.5
6380 %TroopsSupplied: 100
6381
6382 Name: 3
6383 X: 539
6384 Y: 199
6385 civpop: 2
6386 trooppop: 1
6387 rawresources: 237.3999999999995
6388 equipment: 80.200000000054
6389 rate: 1.4
6390 popraw: 0
6391 popequip: 0.5
6392 %TroopsSupplied: 100
```

```
6393
6394 Name: 3
6395 X: 539
6396 Y: 199
6397 civpop: 2
6398 trooppop: 1
6399 rawresources: 37.3999999999995
6400 equipment: 80.2000000000054
6401 rate: 1.4
6402 popraw: 0
6403 popequip: 0.5
6404 %TroopsSupplied: 100
6405
6406 Name: 3
6407 X: 539
6408 Y: 199
6409 civpop: 2
6410 trooppop: 1
6411 rawresources: 190.2
6412 equipment: 84.0000000000547
6413 rate: 1.4
6414 popraw: 0
6415 popequip: 0.5
6416 %TroopsSupplied: 100
6417 Sim over Total pop = 0 Tick Complete = 49313
    Fitness = 5264.7500000002965
6418 Ai: 7 Gen: 43
6419 Sim Starting
6420 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 529.149999999998
6421 Ai: 8 Gen: 43
6422 Sim Starting
6423 Sim over Total pop = 0 Tick Complete = 3553
    Fitness = 542.749999999994
6424 Ai: 9 Gen: 43
6425 Sim Starting
6426 Sim over Total pop = 0 Tick Complete = 8613
    Fitness = 1143.2500000000073
6427 Ai: 10 Gen: 43
6428 Sim Starting
6429 Sim over Total pop = 0 Tick Complete = 24145
    Fitness = 2674.99999999768
6430 Ai: 11 Gen: 43
6431 Sim Starting
```

```
6432 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 742.1000000000013
6433 Ai: 12 Gen: 43
6434 Sim Starting
6435 Sim over Total pop = 0 Tick Complete = 4664
    Fitness = 542.7999999999898
6436 Ai: 13 Gen: 43
6437 Sim Starting
6438 Sim over Total pop = 0 Tick Complete = 4400
    Fitness = 912.6499999999983
6439 Ai: 14 Gen: 43
6440 Sim Starting
6441 Sim over Total pop = 0 Tick Complete = 8624
    Fitness = 1237.5500000000088
6442 Ai: 15 Gen: 43
6443 Sim Starting
6444 Sim over Total pop = 0 Tick Complete = 5588
    Fitness = 501.3500000000023
6445 Ai: 16 Gen: 43
6446 Sim Starting
6447 Sim over Total pop = 0 Tick Complete = 8283
    Fitness = 562.700000000005
6448 Ai: 17 Gen: 43
6449 Sim Starting
6450 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = 555.700000000006
6451 Ai: 18 Gen: 43
6452 Sim Starting
6453 Sim over Total pop = 0 Tick Complete = 7216
    Fitness = 497.750000000002
6454 Ai: 19 Gen: 43
6455 Sim Starting
6456 Sim over Total pop = 0 Tick Complete = 1639
    Fitness = 148.4000000000003
6457 Ai: 20 Gen: 43
6458 Sim Starting
6459 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 293.1999999999989
6460 Ai: 21 Gen: 43
6461 Sim Starting
6462 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
6463 Ai: 22 Gen: 43
6464 Sim Starting
```

```
6465 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -175.3
6466 Ai: 23 Gen: 43
6467 Sim Starting
6468 Sim over Total pop = 0 Tick Complete = 1342
    Fitness = 55.64999999999935
6469 Ai: 24 Gen: 43
6470 Sim Starting
6471 Sim over Total pop = 0 Tick Complete = 8184
    Fitness = 1834.4499999999866
6472 Ai: 25 Gen: 43
6473 Sim Starting
6474 Sim over Total pop = 0 Tick Complete = 6347
    Fitness = 1676.2500000000643
6475 Ai: 26 Gen: 43
6476 Sim Starting
6477 Sim over Total pop = 0 Tick Complete = 18645
    Fitness = 1581.199999999937
6478 Ai: 27 Gen: 43
6479 Sim Starting
6480 Sim over Total pop = 0 Tick Complete = 15213
    Fitness = 2019.050000000092
6481 Ai: 28 Gen: 43
6482 Sim Starting
6483 Sim over Total pop = 0 Tick Complete = 18469
    Fitness = 2704.700000000154
6484 Ai: 29 Gen: 43
6485 Sim Starting
6486 Sim over Total pop = 0 Tick Complete = 14190
    Fitness = 2103.0499999999656
6487 Ai: 30 Gen: 43
6488 Sim Starting
6489 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.7
6490 Ai: 31 Gen: 43
6491 Sim Starting
6492 Sim over Total pop = 0 Tick Complete = 3674
    Fitness = 771.7499999999878
6493 Ai: 32 Gen: 43
6494 Sim Starting
6495 Sim over Total pop = 0 Tick Complete = 16676
    Fitness = 2747.5499999998387
6496 Ai: 33 Gen: 43
6497 Sim Starting
```

```
6498 Sim over Total pop = 0 Tick Complete = 1606
    Fitness = 483.8499999999998
6499 Ai: 34 Gen: 43
6500 Sim Starting
6501 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 258.5
6502 Ai: 35 Gen: 43
6503 Sim Starting
6504 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 451.8999999999804
6505 Ai: 36 Gen: 43
6506 Sim Starting
6507 Sim over Total pop = 0 Tick Complete = 594
    Fitness = 133.2000000000005
6508 Ai: 37 Gen: 43
6509 Sim Starting
6510 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 303.299999999999
6511 Ai: 38 Gen: 43
6512 Sim Starting
6513 Sim over Total pop = 0 Tick Complete = 693
    Fitness = 285.099999999999
6514 Ai: 39 Gen: 43
6515 Sim Starting
6516 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
6517 Ai: 40 Gen: 43
6518 Sim Starting
6519 Sim over Total pop = 0 Tick Complete = 18282
    Fitness = 1813.699999999236
6520 Ai: 41 Gen: 43
6521 Sim Starting
6522 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6523 Ai: 42 Gen: 43
6524 Sim Starting
6525 Sim over Total pop = 0 Tick Complete = 7535
    Fitness = 1159.900000000133
6526 Ai: 43 Gen: 43
6527 Sim Starting
6528 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
6529 Ai: 44 Gen: 43
6530 Sim Starting
```

```
6531 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6532 Ai: 45 Gen: 43
6533 Sim Starting
6534 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 187.9500000000001
6535 Ai: 46 Gen: 43
6536 Sim Starting
6537 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 290.1000000000014
6538 Ai: 47 Gen: 43
6539 Sim Starting
6540 Sim over Total pop = 0 Tick Complete = 2684
    Fitness = 417.15
6541 Ai: 48 Gen: 43
6542 Sim Starting
6543 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
6544 Ai: 0 Gen: 44
6545 Sim Starting
6546 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = 424.4
6547 Ai: 1 Gen: 44
6548 Sim Starting
6549 Sim over Total pop = 0 Tick Complete = 704
    Fitness = 229.75
6550 Ai: 2 Gen: 44
6551 Sim Starting
6552 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -139.0
6553 Ai: 3 Gen: 44
6554 Sim Starting
6555 Sim over Total pop = 0 Tick Complete = 594
    Fitness = -160.0
6556 Ai: 4 Gen: 44
6557 Sim Starting
6558 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 242.25
6559 Ai: 5 Gen: 44
6560 Sim Starting
6561 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 261.5
6562 Ai: 6 Gen: 44
6563 Sim Starting
```

```
6564 Sim over Total pop = 0 Tick Complete = 649
    Fitness = -187.34999999999997
6565 Ai: 7 Gen: 44
6566 Sim Starting
6567 Sim over Total pop = 0 Tick Complete = 3300
    Fitness = 814.799999999992
6568 Ai: 8 Gen: 44
6569 Sim Starting
6570 Sim over Total pop = 0 Tick Complete = 561
    Fitness = -198.8
6571 Ai: 9 Gen: 44
6572 Sim Starting
6573 Sim over Total pop = 0 Tick Complete = 7348
    Fitness = 398.4999999999756
6574 Ai: 10 Gen: 44
6575 Sim Starting
6576 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 347.699999999999
6577 Ai: 11 Gen: 44
6578 Sim Starting
6579 Sim over Total pop = 0 Tick Complete = 1914
    Fitness = 259.9500000000016
6580 Ai: 12 Gen: 44
6581 Sim Starting
6582 Sim over Total pop = 0 Tick Complete = 4521
    Fitness = 971.249999999897
6583 Ai: 13 Gen: 44
6584 Sim Starting
6585 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = 172.4000000000057
6586 Ai: 14 Gen: 44
6587 Sim Starting
6588 Sim over Total pop = 0 Tick Complete = 3421
    Fitness = 94.8499999999998
6589 Ai: 15 Gen: 44
6590 Sim Starting
6591 Sim over Total pop = 0 Tick Complete = 7084
    Fitness = 223.2499999999812
6592 Ai: 16 Gen: 44
6593 Sim Starting
6594 Sim over Total pop = 0 Tick Complete = 13090
    Fitness = 2662.249999999773
6595 Ai: 17 Gen: 44
6596 Sim Starting
```

```
6597 Sim over Total pop = 0 Tick Complete = 5027
    Fitness = 328.89999999999986
6598 Ai: 18 Gen: 44
6599 Sim Starting
6600 Sim over Total pop = 0 Tick Complete = 6479
    Fitness = 1075.900000000005
6601 Ai: 19 Gen: 44
6602 Sim Starting
6603 Sim over Total pop = 0 Tick Complete = 10131
    Fitness = 607.0
6604 Ai: 20 Gen: 44
6605 Sim Starting
6606 Sim over Total pop = 0 Tick Complete = 12815
    Fitness = 715.150000000008
6607 Ai: 21 Gen: 44
6608 Sim Starting
6609 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -169.350000000002
6610 Ai: 22 Gen: 44
6611 Sim Starting
6612 Sim over Total pop = 0 Tick Complete = 45496
    Fitness = 2594.249999998445
6613 Ai: 23 Gen: 44
6614 Sim Starting
6615 Sim over Total pop = 0 Tick Complete = 3608
    Fitness = 888.80000000001
6616 Ai: 24 Gen: 44
6617 Sim Starting
6618 Sim over Total pop = 0 Tick Complete = 9548
    Fitness = 454.050000000005
6619 Ai: 25 Gen: 44
6620 Sim Starting
6621 Sim over Total pop = 0 Tick Complete = 2255
    Fitness = 103.100000000002
6622 Ai: 26 Gen: 44
6623 Sim Starting
6624 Sim over Total pop = 0 Tick Complete = 5181
    Fitness = 741.299999999961
6625 Ai: 27 Gen: 44
6626 Sim Starting
6627 Sim over Total pop = 0 Tick Complete = 53108
    Fitness = 6018.150000000749
6628 Ai: 28 Gen: 44
6629 Sim Starting
```

```
6630 Sim over Total pop = 0 Tick Complete = 16445
    Fitness = 2427.5999999998257
6631 Ai: 29 Gen: 44
6632 Sim Starting
6633 Sim over Total pop = 0 Tick Complete = 6061
    Fitness = 1180.6999999999957
6634 Ai: 30 Gen: 44
6635 Sim Starting
6636 Sim over Total pop = 0 Tick Complete = 4686
    Fitness = 231.2500000000004
6637 Ai: 31 Gen: 44
6638 Sim Starting
6639 Sim over Total pop = 0 Tick Complete = 5071
    Fitness = 271.55000000000234
6640 Ai: 32 Gen: 44
6641 Sim Starting
6642 Sim over Total pop = 0 Tick Complete = 781
    Fitness = -181.9000000000001
6643 Ai: 33 Gen: 44
6644 Sim Starting
6645 Sim over Total pop = 0 Tick Complete = 15037
    Fitness = 1818.9000000000444
6646 Ai: 34 Gen: 44
6647 Sim Starting
6648 Sim over Total pop = 0 Tick Complete = 25245
    Fitness = 2561.299999999786
6649 Ai: 35 Gen: 44
6650 Sim Starting
6651 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 42.64999999999935
6652 Ai: 36 Gen: 44
6653 Sim Starting
6654 Sim over Total pop = 0 Tick Complete = 10659
    Fitness = 1033.450000000014
6655 Ai: 37 Gen: 44
6656 Sim Starting
6657 Sim over Total pop = 0 Tick Complete = 69817
    Fitness = 3385.7500000000005
6658 Ai: 38 Gen: 44
6659 Sim Starting
6660 Sim over Total pop = 0 Tick Complete = 1947
    Fitness = 752.4500000000007
6661 Ai: 39 Gen: 44
6662 Sim Starting
```

```
6663 Sim over Total pop = 0 Tick Complete = 28006
    Fitness = 2694.7999999998146
6664 Ai: 40 Gen: 44
6665 Sim Starting
6666 Sim over Total pop = 0 Tick Complete = 4092
    Fitness = 748.2999999999919
6667 Ai: 41 Gen: 44
6668 Sim Starting
6669 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = -101.1499999999986
6670 Ai: 42 Gen: 44
6671 Sim Starting
6672 Sim over Total pop = 0 Tick Complete = 5412
    Fitness = 1034.3500000000001
6673 Ai: 43 Gen: 44
6674 Sim Starting
6675 Sim over Total pop = 0 Tick Complete = 8250
    Fitness = 1806.9500000000605
6676 Ai: 44 Gen: 44
6677 Sim Starting
6678 Sim over Total pop = 0 Tick Complete = 2904
    Fitness = 1005.0
6679 Ai: 45 Gen: 44
6680 Sim Starting
6681 Sim over Total pop = 0 Tick Complete = 11528
    Fitness = 719.200000000178
6682 Ai: 46 Gen: 44
6683 Sim Starting
6684 Sim over Total pop = 0 Tick Complete = 7073
    Fitness = 315.1000000000235
6685 Ai: 47 Gen: 44
6686 Sim Starting
6687 Sim over Total pop = 0 Tick Complete = 3102
    Fitness = 374.399999999978
6688 Ai: 48 Gen: 44
6689 Sim Starting
6690 Sim over Total pop = 0 Tick Complete = 5599
    Fitness = 795.350000000038
6691 Ai: 49 Gen: 44
6692 Sim Starting
6693 Sim over Total pop = 0 Tick Complete = 5962
    Fitness = 889.899999999986
6694 Ai: 0 Gen: 45
6695 Sim Starting
```

```
6696 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 737.0000000000008
6697 Ai: 1 Gen: 45
6698 Sim Starting
6699 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 260.5
6700 Ai: 2 Gen: 45
6701 Sim Starting
6702 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
6703 Ai: 3 Gen: 45
6704 Sim Starting
6705 Sim over Total pop = 0 Tick Complete = 913
    Fitness = -2.650000000000483
6706 Ai: 4 Gen: 45
6707 Sim Starting
6708 Sim over Total pop = 0 Tick Complete = 660
    Fitness = 139.7
6709 Ai: 5 Gen: 45
6710 Sim Starting
6711 Sim over Total pop = 0 Tick Complete = 4587
    Fitness = 588.250000000016
6712 Ai: 6 Gen: 45
6713 Sim Starting
6714 Sim over Total pop = 0 Tick Complete = 2794
    Fitness = 523.700000000022
6715 Ai: 7 Gen: 45
6716 Sim Starting
6717 Sim over Total pop = 0 Tick Complete = 3608
    Fitness = 166.050000000002
6718 Ai: 8 Gen: 45
6719 Sim Starting
6720 Sim over Total pop = 0 Tick Complete = 946
    Fitness = 160.5
6721 Ai: 9 Gen: 45
6722 Sim Starting
6723 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 251.0
6724 Ai: 10 Gen: 45
6725 Sim Starting
6726 Sim over Total pop = 0 Tick Complete = 2233
    Fitness = 393.1999999999516
6727 Ai: 11 Gen: 45
6728 Sim Starting
```

```
6729 Sim over Total pop = 0 Tick Complete = 1122
    Fitness = -64.15000000000003
6730 Ai: 12 Gen: 45
6731 Sim Starting
6732 Sim over Total pop = 0 Tick Complete = 18282
    Fitness = 1548.6000000000163
6733 Ai: 13 Gen: 45
6734 Sim Starting
6735 Sim over Total pop = 0 Tick Complete = 8646
    Fitness = 1264.7500000000052
6736 Ai: 14 Gen: 45
6737 Sim Starting
6738 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = 433.7000000000016
6739 Ai: 15 Gen: 45
6740 Sim Starting
6741 Sim over Total pop = 0 Tick Complete = 8206
    Fitness = 1545.8999999999535
6742 Ai: 16 Gen: 45
6743 Sim Starting
6744 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 355.5
6745 Ai: 17 Gen: 45
6746 Sim Starting
6747 Sim over Total pop = 0 Tick Complete = 33517
    Fitness = 2420.100000000172
6748 Ai: 18 Gen: 45
6749 Sim Starting
6750 Sim over Total pop = 0 Tick Complete = 1782
    Fitness = 764.799999999998
6751 Ai: 19 Gen: 45
6752 Sim Starting
6753 Sim over Total pop = 0 Tick Complete = 2464
    Fitness = 866.7500000000007
6754 Ai: 20 Gen: 45
6755 Sim Starting
6756 Sim over Total pop = 0 Tick Complete = 12353
    Fitness = 816.4499999999787
6757 Ai: 21 Gen: 45
6758 Sim Starting
6759 Sim over Total pop = 0 Tick Complete = 1298
    Fitness = -11.850000000000025
6760 Ai: 22 Gen: 45
6761 Sim Starting
```

```
6762 Sim over Total pop = 0 Tick Complete = 24156
    Fitness = 1086.2500000000139
6763 Ai: 23 Gen: 45
6764 Sim Starting
6765 Sim over Total pop = 0 Tick Complete = 9713
    Fitness = 1226.249999999979
6766 Ai: 24 Gen: 45
6767 Sim Starting
6768 Sim over Total pop = 0 Tick Complete = 13453
    Fitness = 549.600000000098
6769 Ai: 25 Gen: 45
6770 Sim Starting
6771 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 317.0
6772 Ai: 26 Gen: 45
6773 Sim Starting
6774 Sim over Total pop = 0 Tick Complete = 14795
    Fitness = 1337.4999999999663
6775 Ai: 27 Gen: 45
6776 Sim Starting
6777 Sim over Total pop = 0 Tick Complete = 2728
    Fitness = 314.9499999999995
6778 Ai: 28 Gen: 45
6779 Sim Starting
6780 Sim over Total pop = 0 Tick Complete = 10494
    Fitness = 1861.6499999999926
6781 Ai: 29 Gen: 45
6782 Sim Starting
6783 Sim over Total pop = 0 Tick Complete = 3993
    Fitness = 753.3000000000028
6784 Ai: 30 Gen: 45
6785 Sim Starting
6786 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -189.8
6787 Ai: 31 Gen: 45
6788 Sim Starting
6789 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -184.0999999999997
6790 Ai: 32 Gen: 45
6791 Sim Starting
6792 Sim over Total pop = 0 Tick Complete = 16544
    Fitness = 1471.249999999447
6793 Ai: 33 Gen: 45
6794 Sim Starting
```

```
6795 Sim over Total pop = 0 Tick Complete = 4719
    Fitness = 921.800000000004
6796 Ai: 34 Gen: 45
6797 Sim Starting
6798 Sim over Total pop = 0 Tick Complete = 13398
    Fitness = 1333.999999999998
6799 Ai: 35 Gen: 45
6800 Sim Starting
6801 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -173.65
6802 Ai: 36 Gen: 45
6803 Sim Starting
6804 Sim over Total pop = 0 Tick Complete = 9801
    Fitness = 1429.649999999993
6805 Ai: 37 Gen: 45
6806 Sim Starting
6807 Sim over Total pop = 0 Tick Complete = 616
    Fitness = -195.95000000000005
6808 Ai: 38 Gen: 45
6809 Sim Starting
6810 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -203.8
6811 Ai: 39 Gen: 45
6812 Sim Starting
6813 Sim over Total pop = 0 Tick Complete = 7656
    Fitness = 519.350000000046
6814 Ai: 40 Gen: 45
6815 Sim Starting
6816 Sim over Total pop = 0 Tick Complete = 12650
    Fitness = 1653.400000000017
6817 Ai: 41 Gen: 45
6818 Sim Starting
6819 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -202.2
6820 Ai: 42 Gen: 45
6821 Sim Starting
6822 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
6823 Ai: 43 Gen: 45
6824 Sim Starting
6825 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -202.55
6826 Ai: 44 Gen: 45
6827 Sim Starting
```

```
6828 Sim over Total pop = 0 Tick Complete = 10120
    Fitness = 1992.3500000000163
6829 Ai: 45 Gen: 45
6830 Sim Starting
6831 Sim over Total pop = 0 Tick Complete = 12529
    Fitness = 2477.7000000000157
6832 Ai: 46 Gen: 45
6833 Sim Starting
6834 Sim over Total pop = 0 Tick Complete = 847
    Fitness = -168.7000000000002
6835 Ai: 47 Gen: 45
6836 Sim Starting
6837 Sim over Total pop = 0 Tick Complete = 17600
    Fitness = 2229.099999999453
6838 Ai: 48 Gen: 45
6839 Sim Starting
6840 Sim over Total pop = 0 Tick Complete = 20086
    Fitness = 1681.5000000000828
6841 Ai: 49 Gen: 45
6842 Sim Starting
6843 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -201.55
6844 Ai: 0 Gen: 46
6845 Sim Starting
6846 Sim over Total pop = 0 Tick Complete = 9592
    Fitness = 1600.099999999601
6847 Ai: 1 Gen: 46
6848 Sim Starting
6849 Sim over Total pop = 0 Tick Complete = 4235
    Fitness = 693.799999999985
6850 Ai: 2 Gen: 46
6851 Sim Starting
6852 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.4
6853 Ai: 3 Gen: 46
6854 Sim Starting
6855 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 131.1
6856 Ai: 4 Gen: 46
6857 Sim Starting
6858 Sim over Total pop = 0 Tick Complete = 7150
    Fitness = 782.100000000001
6859 Ai: 5 Gen: 46
6860 Sim Starting
```

```
6861 Sim over Total pop = 0 Tick Complete = 5654
    Fitness = 332.94999999999766
6862 Ai: 6 Gen: 46
6863 Sim Starting
6864 Sim over Total pop = 0 Tick Complete = 3949
    Fitness = 817.0000000000045
6865 Ai: 7 Gen: 46
6866 Sim Starting
6867 Sim over Total pop = 0 Tick Complete = 2002
    Fitness = 1040.6500000000044
6868 Ai: 8 Gen: 46
6869 Sim Starting
6870 Sim over Total pop = 0 Tick Complete = 3179
    Fitness = 315.0
6871 Ai: 9 Gen: 46
6872 Sim Starting
6873 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 291.65
6874 Ai: 10 Gen: 46
6875 Sim Starting
6876
6877 Name: 2
6878 X: 240
6879 Y: 686
6880 civpop: 8
6881 trooppop: 6
6882 rawresources: 1064.0000000000286
6883 equipment: 72.3999999999819
6884 rate: 1.4
6885 popraw: 0
6886 popequip: 0.5
6887 %TroopsSupplied: 100
6888
6889 Name: 2
6890 X: 240
6891 Y: 686
6892 civpop: 8
6893 trooppop: 6
6894 rawresources: 946.400000000029
6895 equipment: 63.9999999999807
6896 rate: 1.4
6897 popraw: 0
6898 popequip: 0.5
6899 %TroopsSupplied: 100
```

```
6900 Sim over Total pop = 0 Tick Complete = 6160
    Fitness = 1086.75
6901 Ai: 11 Gen: 46
6902 Sim Starting
6903 Sim over Total pop = 0 Tick Complete = 1056
    Fitness = -115.65
6904 Ai: 12 Gen: 46
6905 Sim Starting
6906 Sim over Total pop = 0 Tick Complete = 1309
    Fitness = 143.0
6907 Ai: 13 Gen: 46
6908 Sim Starting
6909 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 270.25
6910 Ai: 14 Gen: 46
6911 Sim Starting
6912 Sim over Total pop = 0 Tick Complete = 23650
    Fitness = 1907.999999999909
6913 Ai: 15 Gen: 46
6914 Sim Starting
6915 Sim over Total pop = 0 Tick Complete = 6028
    Fitness = 99.1999999999959
6916 Ai: 16 Gen: 46
6917 Sim Starting
6918 Sim over Total pop = 0 Tick Complete = 5511
    Fitness = 298.1000000000013
6919 Ai: 17 Gen: 46
6920 Sim Starting
6921 Sim over Total pop = 0 Tick Complete = 3608
    Fitness = -4.80000000000473
6922 Ai: 18 Gen: 46
6923 Sim Starting
6924 Sim over Total pop = 0 Tick Complete = 4367
    Fitness = 10.59999999999046
6925 Ai: 19 Gen: 46
6926 Sim Starting
6927 Sim over Total pop = 0 Tick Complete = 17545
    Fitness = 1509.9499999999289
6928 Ai: 20 Gen: 46
6929 Sim Starting
6930 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 289.5
6931 Ai: 21 Gen: 46
6932 Sim Starting
```

```
6933 Sim over Total pop = 0 Tick Complete = 5005
    Fitness = 1179.35000000000079
6934 Ai: 22 Gen: 46
6935 Sim Starting
6936 Sim over Total pop = 0 Tick Complete = 8261
    Fitness = 784.8500000000195
6937 Ai: 23 Gen: 46
6938 Sim Starting
6939 Sim over Total pop = 0 Tick Complete = 20944
    Fitness = 1204.999999999997
6940 Ai: 24 Gen: 46
6941 Sim Starting
6942 Sim over Total pop = 0 Tick Complete = 572
    Fitness = -180.25
6943 Ai: 25 Gen: 46
6944 Sim Starting
6945 Sim over Total pop = 0 Tick Complete = 1584
    Fitness = 96.5999999999982
6946 Ai: 26 Gen: 46
6947 Sim Starting
6948 Sim over Total pop = 0 Tick Complete = 6567
    Fitness = 1417.7500000000002
6949 Ai: 27 Gen: 46
6950 Sim Starting
6951 Sim over Total pop = 0 Tick Complete = 5346
    Fitness = 456.6999999999646
6952 Ai: 28 Gen: 46
6953 Sim Starting
6954 Sim over Total pop = 0 Tick Complete = 660
    Fitness = -160.75
6955 Ai: 29 Gen: 46
6956 Sim Starting
6957 Sim over Total pop = 0 Tick Complete = 825
    Fitness = -70.3999999999998
6958 Ai: 30 Gen: 46
6959 Sim Starting
6960 Sim over Total pop = 0 Tick Complete = 3267
    Fitness = 422.5000000000002
6961 Ai: 31 Gen: 46
6962 Sim Starting
6963 Sim over Total pop = 0 Tick Complete = 18656
    Fitness = 2689.5999999999835
6964 Ai: 32 Gen: 46
6965 Sim Starting
```

```
6966 Sim over Total pop = 0 Tick Complete = 22495
    Fitness = 1757.5499999998958
6967 Ai: 33 Gen: 46
6968 Sim Starting
6969 Sim over Total pop = 0 Tick Complete = 10945
    Fitness = 2237.699999999993
6970 Ai: 34 Gen: 46
6971 Sim Starting
6972 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -199.85
6973 Ai: 35 Gen: 46
6974 Sim Starting
6975 Sim over Total pop = 0 Tick Complete = 10417
    Fitness = 1540.100000000025
6976 Ai: 36 Gen: 46
6977 Sim Starting
6978 Sim over Total pop = 0 Tick Complete = 25828
    Fitness = 2505.900000000191
6979 Ai: 37 Gen: 46
6980 Sim Starting
6981 Sim over Total pop = 0 Tick Complete = 7227
    Fitness = 629.150000000086
6982 Ai: 38 Gen: 46
6983 Sim Starting
6984 Sim over Total pop = 0 Tick Complete = 1430
    Fitness = 94.85
6985 Ai: 39 Gen: 46
6986 Sim Starting
6987 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
6988 Ai: 40 Gen: 46
6989 Sim Starting
6990 Sim over Total pop = 0 Tick Complete = 40139
    Fitness = 2050.649999998687
6991 Ai: 41 Gen: 46
6992 Sim Starting
6993 Sim over Total pop = 0 Tick Complete = 3058
    Fitness = 387.049999999986
6994 Ai: 42 Gen: 46
6995 Sim Starting
6996 Sim over Total pop = 0 Tick Complete = 3861
    Fitness = -34.84999999999994
6997 Ai: 43 Gen: 46
6998 Sim Starting
```

```
6999 Sim over Total pop = 0 Tick Complete = 6611
    Fitness = 1219.0499999999768
7000 Ai: 44 Gen: 46
7001 Sim Starting
7002 Sim over Total pop = 0 Tick Complete = 781
    Fitness = -177.55000000000018
7003 Ai: 45 Gen: 46
7004 Sim Starting
7005 Sim over Total pop = 0 Tick Complete = 39908
    Fitness = 5005.650000000236
7006 Ai: 46 Gen: 46
7007 Sim Starting
7008 Sim over Total pop = 0 Tick Complete = 10043
    Fitness = 656.85
7009 Ai: 47 Gen: 46
7010 Sim Starting
7011 Sim over Total pop = 0 Tick Complete = 9933
    Fitness = 1421.800000000256
7012 Ai: 48 Gen: 46
7013 Sim Starting
7014 Sim over Total pop = 0 Tick Complete = 6171
    Fitness = 58.15000000000006
7015 Ai: 0 Gen: 47
7016 Sim Starting
7017 Sim over Total pop = 0 Tick Complete = 748
    Fitness = 136.0499999999995
7018 Ai: 1 Gen: 47
7019 Sim Starting
7020 Sim over Total pop = 0 Tick Complete = 1144
    Fitness = 361.700000000002
7021 Ai: 2 Gen: 47
7022 Sim Starting
7023 Sim over Total pop = 0 Tick Complete = 715
    Fitness = 288.0
7024 Ai: 3 Gen: 47
7025 Sim Starting
7026 Sim over Total pop = 0 Tick Complete = 913
    Fitness = 389.5
7027 Ai: 4 Gen: 47
7028 Sim Starting
7029 Sim over Total pop = 0 Tick Complete = 1705
    Fitness = 686.5500000000013
7030 Ai: 5 Gen: 47
7031 Sim Starting
```

```
7032 Sim over Total pop = 0 Tick Complete = 759
    Fitness = 258.25
7033 Ai: 6 Gen: 47
7034 Sim Starting
7035 Sim over Total pop = 0 Tick Complete = 957
    Fitness = 168.1499999999998
7036 Ai: 7 Gen: 47
7037 Sim Starting
7038 Sim over Total pop = 0 Tick Complete = 3762
    Fitness = 683.6499999999988
7039 Ai: 8 Gen: 47
7040 Sim Starting
7041 Sim over Total pop = 0 Tick Complete = 1804
    Fitness = 421.500000000002
7042 Ai: 9 Gen: 47
7043 Sim Starting
7044 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
7045 Ai: 10 Gen: 47
7046 Sim Starting
7047 Sim over Total pop = 0 Tick Complete = 2816
    Fitness = 601.5499999999968
7048 Ai: 11 Gen: 47
7049 Sim Starting
7050 Sim over Total pop = 0 Tick Complete = 5401
    Fitness = 259.8499999999985
7051 Ai: 12 Gen: 47
7052 Sim Starting
7053 Sim over Total pop = 0 Tick Complete = 2156
    Fitness = 661.1000000000016
7054 Ai: 13 Gen: 47
7055 Sim Starting
7056 Sim over Total pop = 0 Tick Complete = 5995
    Fitness = 594.8500000000029
7057 Ai: 14 Gen: 47
7058 Sim Starting
7059 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
7060 Ai: 15 Gen: 47
7061 Sim Starting
7062 Sim over Total pop = 0 Tick Complete = 1232
    Fitness = 269.5500000000006
7063 Ai: 16 Gen: 47
7064 Sim Starting
```

```
7065 Sim over Total pop = 0 Tick Complete = 10241
    Fitness = 902.4500000000197
7066 Ai: 17 Gen: 47
7067 Sim Starting
7068 Sim over Total pop = 0 Tick Complete = 12386
    Fitness = 1239.6999999999975
7069 Ai: 18 Gen: 47
7070 Sim Starting
7071 Sim over Total pop = 0 Tick Complete = 11561
    Fitness = 300.0
7072 Ai: 19 Gen: 47
7073 Sim Starting
7074 Sim over Total pop = 0 Tick Complete = 37686
    Fitness = 1950.099999999884
7075 Ai: 20 Gen: 47
7076 Sim Starting
7077 Sim over Total pop = 0 Tick Complete = 4125
    Fitness = 573.950000000049
7078 Ai: 21 Gen: 47
7079 Sim Starting
7080 Sim over Total pop = 0 Tick Complete = 11572
    Fitness = 1167.3999999999885
7081 Ai: 22 Gen: 47
7082 Sim Starting
7083 Sim over Total pop = 0 Tick Complete = 11572
    Fitness = 868.599999999843
7084 Ai: 23 Gen: 47
7085 Sim Starting
7086 Sim over Total pop = 0 Tick Complete = 7722
    Fitness = 527.149999999925
7087 Ai: 24 Gen: 47
7088 Sim Starting
7089 Sim over Total pop = 0 Tick Complete = 7227
    Fitness = 207.9000000000208
7090 Ai: 25 Gen: 47
7091 Sim Starting
7092 Sim over Total pop = 0 Tick Complete = 14256
    Fitness = 1392.700000000033
7093 Ai: 26 Gen: 47
7094 Sim Starting
7095 Sim over Total pop = 0 Tick Complete = 6820
    Fitness = 964.3500000000023
7096 Ai: 27 Gen: 47
7097 Sim Starting
```

```
7098 Sim over Total pop = 0 Tick Complete = 1628
    Fitness = -66.05000000000001
7099 Ai: 28 Gen: 47
7100 Sim Starting
7101 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
7102 Ai: 29 Gen: 47
7103 Sim Starting
7104 Sim over Total pop = 0 Tick Complete = 4620
    Fitness = 811.249999999839
7105 Ai: 30 Gen: 47
7106 Sim Starting
7107 Sim over Total pop = 0 Tick Complete = 1573
    Fitness = 60.4499999999986
7108 Ai: 31 Gen: 47
7109 Sim Starting
7110 Sim over Total pop = 0 Tick Complete = 15103
    Fitness = 1391.7500000000316
7111 Ai: 32 Gen: 47
7112 Sim Starting
7113 Sim over Total pop = 0 Tick Complete = 14586
    Fitness = 2347.549999999957
7114 Ai: 33 Gen: 47
7115 Sim Starting
7116 Sim over Total pop = 0 Tick Complete = 56650
    Fitness = 4514.99999999995
7117 Ai: 34 Gen: 47
7118 Sim Starting
7119 Sim over Total pop = 0 Tick Complete = 4763
    Fitness = 918.849999999979
7120 Ai: 35 Gen: 47
7121 Sim Starting
7122 Sim over Total pop = 0 Tick Complete = 4686
    Fitness = 644.900000000042
7123 Ai: 36 Gen: 47
7124 Sim Starting
7125 Sim over Total pop = 0 Tick Complete = 3597
    Fitness = 286.1
7126 Ai: 37 Gen: 47
7127 Sim Starting
7128 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -203.8
7129 Ai: 38 Gen: 47
7130 Sim Starting
```

```
7131 Sim over Total pop = 0 Tick Complete = 5676
    Fitness = 176.85000000000096
7132 Ai: 39 Gen: 47
7133 Sim Starting
7134 Sim over Total pop = 0 Tick Complete = 1683
    Fitness = -52.74999999999968
7135 Ai: 40 Gen: 47
7136 Sim Starting
7137 Sim over Total pop = 0 Tick Complete = 7073
    Fitness = 1019.9000000000065
7138 Ai: 41 Gen: 47
7139 Sim Starting
7140 Sim over Total pop = 0 Tick Complete = 4147
    Fitness = 104.9500000000005
7141 Ai: 42 Gen: 47
7142 Sim Starting
7143 Sim over Total pop = 0 Tick Complete = 21395
    Fitness = 1975.399999998762
7144 Ai: 43 Gen: 47
7145 Sim Starting
7146 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -106.55000000000001
7147 Ai: 44 Gen: 47
7148 Sim Starting
7149 Sim over Total pop = 0 Tick Complete = 605
    Fitness = -176.75000000000009
7150 Ai: 45 Gen: 47
7151 Sim Starting
7152 Sim over Total pop = 0 Tick Complete = 4939
    Fitness = 938.4500000000029
7153 Ai: 46 Gen: 47
7154 Sim Starting
7155 Sim over Total pop = 0 Tick Complete = 20306
    Fitness = 3159.999999997844
7156 Ai: 47 Gen: 47
7157 Sim Starting
7158 Sim over Total pop = 0 Tick Complete = 6127
    Fitness = 1648.1999999999678
7159 Ai: 48 Gen: 47
7160 Sim Starting
7161 Sim over Total pop = 0 Tick Complete = 4917
    Fitness = 1288.0000000000029
7162 Ai: 49 Gen: 47
7163 Sim Starting
```

```
7164 Sim over Total pop = 0 Tick Complete = 902
    Fitness = -74.1
7165 Ai: 0 Gen: 48
7166 Sim Starting
7167 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 172.8999999999998
7168 Ai: 1 Gen: 48
7169 Sim Starting
7170 Sim over Total pop = 0 Tick Complete = 781
    Fitness = 212.0
7171 Ai: 2 Gen: 48
7172 Sim Starting
7173 Sim over Total pop = 0 Tick Complete = 3344
    Fitness = 395.25000000000034
7174 Ai: 3 Gen: 48
7175 Sim Starting
7176 Sim over Total pop = 0 Tick Complete = 682
    Fitness = -156.35
7177 Ai: 4 Gen: 48
7178 Sim Starting
7179 Sim over Total pop = 0 Tick Complete = 2431
    Fitness = 610.549999999993
7180 Ai: 5 Gen: 48
7181 Sim Starting
7182 Sim over Total pop = 0 Tick Complete = 968
    Fitness = -150.1
7183 Ai: 6 Gen: 48
7184 Sim Starting
7185 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 615.3500000000009
7186 Ai: 7 Gen: 48
7187 Sim Starting
7188 Sim over Total pop = 0 Tick Complete = 2376
    Fitness = 233.6999999999953
7189 Ai: 8 Gen: 48
7190 Sim Starting
7191 Sim over Total pop = 0 Tick Complete = 6974
    Fitness = 772.9499999999977
7192 Ai: 9 Gen: 48
7193 Sim Starting
7194 Sim over Total pop = 0 Tick Complete = 2222
    Fitness = 389.05000000000018
7195 Ai: 10 Gen: 48
7196 Sim Starting
```

```
7197 Sim over Total pop = 0 Tick Complete = 1221
    Fitness = 327.5
7198 Ai: 11 Gen: 48
7199 Sim Starting
7200 Sim over Total pop = 0 Tick Complete = 583
    Fitness = -198.0000000000003
7201 Ai: 12 Gen: 48
7202 Sim Starting
7203 Sim over Total pop = 0 Tick Complete = 1496
    Fitness = 238.9999999999932
7204 Ai: 13 Gen: 48
7205 Sim Starting
7206 Sim over Total pop = 0 Tick Complete = 12815
    Fitness = 2026.8999999999928
7207 Ai: 14 Gen: 48
7208 Sim Starting
7209 Sim over Total pop = 0 Tick Complete = 5181
    Fitness = 926.350000000011
7210 Ai: 15 Gen: 48
7211 Sim Starting
7212 Sim over Total pop = 0 Tick Complete = 2365
    Fitness = 407.8000000000103
7213 Ai: 16 Gen: 48
7214 Sim Starting
7215 Sim over Total pop = 0 Tick Complete = 18700
    Fitness = 1487.099999999547
7216 Ai: 17 Gen: 48
7217 Sim Starting
7218 Sim over Total pop = 0 Tick Complete = 1397
    Fitness = 168.2500000000054
7219 Ai: 18 Gen: 48
7220 Sim Starting
7221 Sim over Total pop = 0 Tick Complete = 4389
    Fitness = 773.8500000000053
7222 Ai: 19 Gen: 48
7223 Sim Starting
7224 Sim over Total pop = 0 Tick Complete = 5874
    Fitness = 107.6499999999998
7225 Ai: 20 Gen: 48
7226 Sim Starting
7227 Sim over Total pop = 0 Tick Complete = 115104
    Fitness = 7268.650000001522
7228 Ai: 21 Gen: 48
7229 Sim Starting
```

```
7230 Sim over Total pop = 0 Tick Complete = 8679
    Fitness = 1071.1000000000076
7231 Ai: 22 Gen: 48
7232 Sim Starting
7233 Sim over Total pop = 0 Tick Complete = 3256
    Fitness = 233.0999999999991
7234 Ai: 23 Gen: 48
7235 Sim Starting
7236 Sim over Total pop = 0 Tick Complete = 10406
    Fitness = 525.45
7237 Ai: 24 Gen: 48
7238 Sim Starting
7239 Sim over Total pop = 0 Tick Complete = 9306
    Fitness = 877.749999999857
7240 Ai: 25 Gen: 48
7241 Sim Starting
7242 Sim over Total pop = 0 Tick Complete = 30195
    Fitness = 2825.549999999748
7243 Ai: 26 Gen: 48
7244 Sim Starting
7245 Sim over Total pop = 0 Tick Complete = 605
    Fitness = 133.3999999999998
7246 Ai: 27 Gen: 48
7247 Sim Starting
7248 Sim over Total pop = 0 Tick Complete = 8250
    Fitness = 509.5999999999956
7249 Ai: 28 Gen: 48
7250 Sim Starting
7251 Sim over Total pop = 0 Tick Complete = 15961
    Fitness = 1463.700000000412
7252 Ai: 29 Gen: 48
7253 Sim Starting
7254 Sim over Total pop = 0 Tick Complete = 1045
    Fitness = -71.2999999999997
7255 Ai: 30 Gen: 48
7256 Sim Starting
7257 Sim over Total pop = 0 Tick Complete = 12496
    Fitness = 1530.300000000532
7258 Ai: 31 Gen: 48
7259 Sim Starting
7260 Sim over Total pop = 0 Tick Complete = 2068
    Fitness = 294.50000000000165
7261 Ai: 32 Gen: 48
7262 Sim Starting
```

```
7263 Sim over Total pop = 0 Tick Complete = 27995
    Fitness = 1709.2999999999138
7264 Ai: 33 Gen: 48
7265 Sim Starting
7266 Sim over Total pop = 0 Tick Complete = 23067
    Fitness = 3978.3499999996016
7267 Ai: 34 Gen: 48
7268 Sim Starting
7269 Sim over Total pop = 0 Tick Complete = 528
    Fitness = -197.25
7270 Ai: 35 Gen: 48
7271 Sim Starting
7272 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
7273 Ai: 36 Gen: 48
7274 Sim Starting
7275 Sim over Total pop = 0 Tick Complete = 4455
    Fitness = 775.1000000000156
7276 Ai: 37 Gen: 48
7277 Sim Starting
7278 Sim over Total pop = 0 Tick Complete = 12738
    Fitness = 1428.7999999999897
7279 Ai: 38 Gen: 48
7280 Sim Starting
7281 Sim over Total pop = 0 Tick Complete = 704
    Fitness = -148.84999999999997
7282 Ai: 39 Gen: 48
7283 Sim Starting
7284 Sim over Total pop = 0 Tick Complete = 2519
    Fitness = 710.6500000000024
7285 Ai: 40 Gen: 48
7286 Sim Starting
7287 Sim over Total pop = 0 Tick Complete = 16995
    Fitness = 1776.6999999999034
7288 Ai: 41 Gen: 48
7289 Sim Starting
7290 Sim over Total pop = 0 Tick Complete = 17105
    Fitness = 767.0
7291 Ai: 42 Gen: 48
7292 Sim Starting
7293 Sim over Total pop = 0 Tick Complete = 49478
    Fitness = 3948.5499999997464
7294 Ai: 43 Gen: 48
7295 Sim Starting
```

```
7296 Sim over Total pop = 0 Tick Complete = 5137
    Fitness = 358.4999999999982
7297 Ai: 44 Gen: 48
7298 Sim Starting
7299 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 339.0
7300 Ai: 45 Gen: 48
7301 Sim Starting
7302 Sim over Total pop = 0 Tick Complete = 18150
    Fitness = 1325.850000000022
7303 Ai: 46 Gen: 48
7304 Sim Starting
7305 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -204.0
7306 Ai: 47 Gen: 48
7307 Sim Starting
7308 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -183.9999999999997
7309 Ai: 48 Gen: 48
7310 Sim Starting
7311 Sim over Total pop = 0 Tick Complete = 671
    Fitness = -163.6000000000002
7312 Ai: 49 Gen: 48
7313 Sim Starting
7314 Sim over Total pop = 0 Tick Complete = 8338
    Fitness = 1106.3499999999976
7315 Ai: 0 Gen: 49
7316 Sim Starting
7317 Sim over Total pop = 0 Tick Complete = 814
    Fitness = 386.3000000000007
7318 Ai: 1 Gen: 49
7319 Sim Starting
7320 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 183.25
7321 Ai: 2 Gen: 49
7322 Sim Starting
7323 Sim over Total pop = 0 Tick Complete = 726
    Fitness = 209.5
7324 Ai: 3 Gen: 49
7325 Sim Starting
7326 Sim over Total pop = 0 Tick Complete = 1001
    Fitness = 268.5
7327 Ai: 4 Gen: 49
7328 Sim Starting
```

```
7329 Sim over Total pop = 0 Tick Complete = 13211
    Fitness = 659.5000000000143
7330 Ai: 5 Gen: 49
7331 Sim Starting
7332 Sim over Total pop = 0 Tick Complete = 935
    Fitness = 401.0
7333 Ai: 6 Gen: 49
7334 Sim Starting
7335 Sim over Total pop = 0 Tick Complete = 1254
    Fitness = 455.1000000000116
7336 Ai: 7 Gen: 49
7337 Sim Starting
7338 Sim over Total pop = 0 Tick Complete = 28842
    Fitness = 3226.2499999997576
7339 Ai: 8 Gen: 49
7340 Sim Starting
7341 Sim over Total pop = 0 Tick Complete = 6424
    Fitness = 910.899999999788
7342 Ai: 9 Gen: 49
7343 Sim Starting
7344 Sim over Total pop = 0 Tick Complete = 902
    Fitness = 383.9000000000043
7345 Ai: 10 Gen: 49
7346 Sim Starting
7347 Sim over Total pop = 0 Tick Complete = 2101
    Fitness = 244.549999999999
7348 Ai: 11 Gen: 49
7349 Sim Starting
7350 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 256.5
7351 Ai: 12 Gen: 49
7352 Sim Starting
7353 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
7354 Ai: 13 Gen: 49
7355 Sim Starting
7356 Sim over Total pop = 0 Tick Complete = 7975
    Fitness = 832.399999999844
7357 Ai: 14 Gen: 49
7358 Sim Starting
7359 Sim over Total pop = 0 Tick Complete = 3146
    Fitness = 709.8000000000006
7360 Ai: 15 Gen: 49
7361 Sim Starting
```

```
7362 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7363 Ai: 16 Gen: 49
7364 Sim Starting
7365 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 284.0
7366 Ai: 17 Gen: 49
7367 Sim Starting
7368 Sim over Total pop = 0 Tick Complete = 16225
    Fitness = 2964.6499999998036
7369 Ai: 18 Gen: 49
7370 Sim Starting
7371 Sim over Total pop = 0 Tick Complete = 6083
    Fitness = 1517.2500000000464
7372 Ai: 19 Gen: 49
7373 Sim Starting
7374 Sim over Total pop = 0 Tick Complete = 506
    Fitness = -204.15
7375 Ai: 20 Gen: 49
7376 Sim Starting
7377 Sim over Total pop = 0 Tick Complete = 21263
    Fitness = 1343.6499999999733
7378 Ai: 21 Gen: 49
7379 Sim Starting
7380 Sim over Total pop = 0 Tick Complete = 17556
    Fitness = 1757.3499999999062
7381 Ai: 22 Gen: 49
7382 Sim Starting
7383 Sim over Total pop = 0 Tick Complete = 3058
    Fitness = 82.84999999999997
7384 Ai: 23 Gen: 49
7385 Sim Starting
7386 Sim over Total pop = 0 Tick Complete = 9339
    Fitness = 1626.4999999999634
7387 Ai: 24 Gen: 49
7388 Sim Starting
7389 Sim over Total pop = 0 Tick Complete = 1848
    Fitness = 589.4999999999984
7390 Ai: 25 Gen: 49
7391 Sim Starting
7392 Sim over Total pop = 0 Tick Complete = 33660
    Fitness = 2878.5499999997405
7393 Ai: 26 Gen: 49
7394 Sim Starting
```

```
7395 Sim over Total pop = 0 Tick Complete = 1034
    Fitness = 318.14999999999986
7396 Ai: 27 Gen: 49
7397 Sim Starting
7398 Sim over Total pop = 0 Tick Complete = 18095
    Fitness = 3034.6499999999505
7399 Ai: 28 Gen: 49
7400 Sim Starting
7401 Sim over Total pop = 0 Tick Complete = 10285
    Fitness = 336.05000000000115
7402 Ai: 29 Gen: 49
7403 Sim Starting
7404 Sim over Total pop = 0 Tick Complete = 8107
    Fitness = 315.65
7405 Ai: 30 Gen: 49
7406 Sim Starting
7407 Sim over Total pop = 0 Tick Complete = 517
    Fitness = -203.7
7408 Ai: 31 Gen: 49
7409 Sim Starting
7410 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 328.0
7411 Ai: 32 Gen: 49
7412 Sim Starting
7413 Sim over Total pop = 0 Tick Complete = 1870
    Fitness = 360.4499999999993
7414 Ai: 33 Gen: 49
7415 Sim Starting
7416 Sim over Total pop = 0 Tick Complete = 9306
    Fitness = 910.949999999813
7417 Ai: 34 Gen: 49
7418 Sim Starting
7419 Sim over Total pop = 0 Tick Complete = 693
    Fitness = -195.2000000000002
7420 Ai: 35 Gen: 49
7421 Sim Starting
7422 Sim over Total pop = 0 Tick Complete = 6886
    Fitness = 290.0000000000019
7423 Ai: 36 Gen: 49
7424 Sim Starting
7425 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 229.0
7426 Ai: 37 Gen: 49
7427 Sim Starting
```

```
7428 Sim over Total pop = 0 Tick Complete = 13145
    Fitness = 988.7499999999767
7429 Ai: 38 Gen: 49
7430 Sim Starting
7431 Sim over Total pop = 0 Tick Complete = 20823
    Fitness = 2019.100000000122
7432 Ai: 39 Gen: 49
7433 Sim Starting
7434 Sim over Total pop = 0 Tick Complete = 4620
    Fitness = 648.700000000012
7435 Ai: 40 Gen: 49
7436 Sim Starting
7437 Sim over Total pop = 0 Tick Complete = 6820
    Fitness = 1403.799999999518
7438 Ai: 41 Gen: 49
7439 Sim Starting
7440 Sim over Total pop = 0 Tick Complete = 7447
    Fitness = 1338.2500000000286
7441 Ai: 42 Gen: 49
7442 Sim Starting
7443 Sim over Total pop = 0 Tick Complete = 6435
    Fitness = 901.899999999958
7444 Ai: 43 Gen: 49
7445 Sim Starting
7446 Sim over Total pop = 0 Tick Complete = 14003
    Fitness = 1293.1000000000183
7447 Ai: 44 Gen: 49
7448 Sim Starting
7449 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 350.049999999987
7450 Ai: 45 Gen: 49
7451 Sim Starting
7452 Sim over Total pop = 0 Tick Complete = 4961
    Fitness = 358.499999999979
7453 Ai: 46 Gen: 49
7454 Sim Starting
7455 Sim over Total pop = 0 Tick Complete = 7172
    Fitness = 618.0000000000053
7456 Ai: 47 Gen: 49
7457 Sim Starting
7458 Sim over Total pop = 0 Tick Complete = 4345
    Fitness = 100.55000000000001
7459 Ai: 48 Gen: 49
7460 Sim Starting
```

```
7461 Sim over Total pop = 0 Tick Complete = 9889
    Fitness = 666.3500000000009
7462 Ai: 0 Gen: 50
7463 Sim Starting
7464 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 213.0
7465 Ai: 1 Gen: 50
7466 Sim Starting
7467 Sim over Total pop = 0 Tick Complete = 627
    Fitness = 138.5
7468 Ai: 2 Gen: 50
7469 Sim Starting
7470 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 218.0
7471 Ai: 3 Gen: 50
7472 Sim Starting
7473 Sim over Total pop = 0 Tick Complete = 649
    Fitness = 320.0
7474 Ai: 4 Gen: 50
7475 Sim Starting
7476 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 160.0
7477 Ai: 5 Gen: 50
7478 Sim Starting
7479 Sim over Total pop = 0 Tick Complete = 1111
    Fitness = 377.10000000000014
7480 Ai: 6 Gen: 50
7481 Sim Starting
7482 Sim over Total pop = 0 Tick Complete = 792
    Fitness = 279.75
7483 Ai: 7 Gen: 50
7484 Sim Starting
7485 Sim over Total pop = 0 Tick Complete = 1991
    Fitness = 474.0500000000055
7486 Ai: 8 Gen: 50
7487 Sim Starting
7488 Sim over Total pop = 0 Tick Complete = 12419
    Fitness = 1518.200000000049
7489 Ai: 9 Gen: 50
7490 Sim Starting
7491 Sim over Total pop = 0 Tick Complete = 20867
    Fitness = 2324.499999998263
7492 Ai: 10 Gen: 50
7493 Sim Starting
```

```
7494 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7495 Ai: 11 Gen: 50
7496 Sim Starting
7497 Sim over Total pop = 0 Tick Complete = 1529
    Fitness = 376.2499999999998
7498 Ai: 12 Gen: 50
7499 Sim Starting
7500 Sim over Total pop = 0 Tick Complete = 2596
    Fitness = 383.74999999999636
7501 Ai: 13 Gen: 50
7502 Sim Starting
7503 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7504 Ai: 14 Gen: 50
7505 Sim Starting
7506 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 278.5
7507 Ai: 15 Gen: 50
7508 Sim Starting
7509 Sim over Total pop = 0 Tick Complete = 3982
    Fitness = 572.5499999999988
7510 Ai: 16 Gen: 50
7511 Sim Starting
7512 Sim over Total pop = 0 Tick Complete = 1177
    Fitness = 137.5999999999974
7513 Ai: 17 Gen: 50
7514 Sim Starting
7515 Sim over Total pop = 0 Tick Complete = 6369
    Fitness = 948.0
7516 Ai: 18 Gen: 50
7517 Sim Starting
7518 Sim over Total pop = 0 Tick Complete = 572
    Fitness = 130.0
7519 Ai: 19 Gen: 50
7520 Sim Starting
7521 Sim over Total pop = 0 Tick Complete = 2354
    Fitness = 278.3999999999907
7522 Ai: 20 Gen: 50
7523 Sim Starting
7524 Sim over Total pop = 0 Tick Complete = 1067
    Fitness = 540.8999999999995
7525 Ai: 21 Gen: 50
7526 Sim Starting
```

```
7527 Sim over Total pop = 0 Tick Complete = 3597
    Fitness = 551.0500000000063
7528 Ai: 22 Gen: 50
7529 Sim Starting
7530 Sim over Total pop = 0 Tick Complete = 15345
    Fitness = 1829.799999999901
7531 Ai: 23 Gen: 50
7532 Sim Starting
7533 Sim over Total pop = 0 Tick Complete = 17743
    Fitness = 2914.6999999999516
7534 Ai: 24 Gen: 50
7535 Sim Starting
7536 Sim over Total pop = 0 Tick Complete = 11264
    Fitness = 2068.8000000000143
7537 Ai: 25 Gen: 50
7538 Sim Starting
7539 Sim over Total pop = 0 Tick Complete = 17567
    Fitness = 735.1500000000162
7540 Ai: 26 Gen: 50
7541 Sim Starting
7542 Sim over Total pop = 0 Tick Complete = 8195
    Fitness = 1881.599999999985
7543 Ai: 27 Gen: 50
7544 Sim Starting
7545 Sim over Total pop = 0 Tick Complete = 2299
    Fitness = 86.2999999999937
7546 Ai: 28 Gen: 50
7547 Sim Starting
7548 Sim over Total pop = 0 Tick Complete = 10373
    Fitness = 926.550000000017
7549 Ai: 29 Gen: 50
7550 Sim Starting
7551 Sim over Total pop = 0 Tick Complete = 14586
    Fitness = 2270.800000000139
7552 Ai: 30 Gen: 50
7553 Sim Starting
7554 Sim over Total pop = 0 Tick Complete = 2497
    Fitness = 460.89999999999856
7555 Ai: 31 Gen: 50
7556 Sim Starting
7557 Sim over Total pop = 0 Tick Complete = 550
    Fitness = -201.55
7558 Ai: 32 Gen: 50
7559 Sim Starting
```

```
7560 Sim over Total pop = 0 Tick Complete = 8591
    Fitness = 2034.2999999999165
7561 Ai: 33 Gen: 50
7562 Sim Starting
7563 Sim over Total pop = 0 Tick Complete = 23353
    Fitness = 1146.5999999999958
7564 Ai: 34 Gen: 50
7565 Sim Starting
7566 Sim over Total pop = 0 Tick Complete = 2024
    Fitness = 244.599999999994
7567 Ai: 35 Gen: 50
7568 Sim Starting
7569 Sim over Total pop = 0 Tick Complete = 6490
    Fitness = 783.449999999991
7570 Ai: 36 Gen: 50
7571 Sim Starting
7572 Sim over Total pop = 0 Tick Complete = 29139
    Fitness = 2521.149999998036
7573 Ai: 37 Gen: 50
7574 Sim Starting
7575 Sim over Total pop = 0 Tick Complete = 1243
    Fitness = 136.25
7576 Ai: 38 Gen: 50
7577 Sim Starting
7578 Sim over Total pop = 0 Tick Complete = 22264
    Fitness = 2268.949999999016
7579 Ai: 39 Gen: 50
7580 Sim Starting
7581 Sim over Total pop = 0 Tick Complete = 5214
    Fitness = 1001.900000000091
7582 Ai: 40 Gen: 50
7583 Sim Starting
7584 Sim over Total pop = 0 Tick Complete = 1859
    Fitness = 336.35
7585 Ai: 41 Gen: 50
7586 Sim Starting
7587 Sim over Total pop = 0 Tick Complete = 1881
    Fitness = 478.6500000000185
7588 Ai: 42 Gen: 50
7589 Sim Starting
7590 Sim over Total pop = 0 Tick Complete = 4136
    Fitness = 1038.3500000000063
7591 Ai: 43 Gen: 50
7592 Sim Starting
```

```
7593 Sim over Total pop = 0 Tick Complete = 3619
    Fitness = 44.25
7594 Ai: 44 Gen: 50
7595 Sim Starting
7596 Sim over Total pop = 0 Tick Complete = 495
    Fitness = -205.0
7597 Ai: 45 Gen: 50
7598 Sim Starting
7599 Sim over Total pop = 0 Tick Complete = 5555
    Fitness = 994.700000000124
7600 Ai: 46 Gen: 50
7601 Sim Starting
7602 Sim over Total pop = 0 Tick Complete = 4301
    Fitness = 1229.499999999964
7603 Ai: 47 Gen: 50
7604 Sim Starting
7605 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 262.0
7606 Ai: 48 Gen: 50
7607 Sim Starting
7608 Sim over Total pop = 0 Tick Complete = 770
    Fitness = 360.0
7609 Ai: 49 Gen: 50
7610 Sim Starting
7611 Sim over Total pop = 0 Tick Complete = 638
    Fitness = 223.5
7612
7613 Best genome:
7614 Key: 1496
7615 Fitness: 2914.699999999516
7616 Nodes:
7617     0 DefaultNodeGene(key=0, bias=-6.
    102786390731828, response=1.0, activation=tanh,
    aggregation=sum)
7618     1 DefaultNodeGene(key=1, bias=1.
    5587172351893728, response=1.0, activation=tanh,
    aggregation=sum)
7619     2 DefaultNodeGene(key=2, bias=1.413261599327723
    , response=1.0, activation=tanh, aggregation=sum)
7620     3 DefaultNodeGene(key=3, bias=-4.
    442112420593957, response=1.0, activation=tanh,
    aggregation=sum)
7621     4 DefaultNodeGene(key=4, bias=-0.
    3309744498254063, response=1.0, activation=tanh,
```

```
7621 aggregation=sum)
7622     5 DefaultNodeGene(key=5, bias=0.
7140578583597565, response=1.0, activation=tanh,
aggregation=sum)
7623     6 DefaultNodeGene(key=6, bias=0.
3458984913007007, response=1.0, activation=tanh,
aggregation=sum)
7624     7 DefaultNodeGene(key=7, bias=0.
15799981135247898, response=1.0, activation=tanh,
aggregation=sum)
7625     8 DefaultNodeGene(key=8, bias=3.552746283675847
, response=1.0, activation=tanh, aggregation=sum)
7626     9 DefaultNodeGene(key=9, bias=0.540518463822687
, response=1.0, activation=tanh, aggregation=sum)
7627    10 DefaultNodeGene(key=10, bias=2.
2882340369945946, response=1.0, activation=tanh,
aggregation=sum)
7628    11 DefaultNodeGene(key=11, bias=0.
5321333048710821, response=1.0, activation=tanh,
aggregation=sum)
7629    96 DefaultNodeGene(key=96, bias=3.
0175517079276184, response=1.0, activation=tanh,
aggregation=sum)
7630    97 DefaultNodeGene(key=97, bias=0.
5960675983319871, response=1.0, activation=tanh,
aggregation=sum)
7631    98 DefaultNodeGene(key=98, bias=0.
8760101158223363, response=1.0, activation=tanh,
aggregation=sum)
7632    101 DefaultNodeGene(key=101, bias=1.
0844405209817478, response=1.0, activation=tanh,
aggregation=sum)
7633    430 DefaultNodeGene(key=430, bias=0.
7080960961339089, response=1.0, activation=tanh,
aggregation=sum)
7634    500 DefaultNodeGene(key=500, bias=1.
4772166137988392, response=1.0, activation=tanh,
aggregation=sum)
7635    536 DefaultNodeGene(key=536, bias=0.
05000475808595274, response=1.0, activation=tanh,
aggregation=sum)
7636 Connections:
7637     DefaultConnectionGene(key=(-50, 96), weight=0.
5766586874276579, enabled=True)
```

```
7638     DefaultConnectionGene(key=(-50, 97), weight=-0.
7455416802890895, enabled=True)
7639     DefaultConnectionGene(key=(-50, 98), weight=0.
4498469228269124, enabled=True)
7640     DefaultConnectionGene(key=(-50, 101), weight=-0.
28576158576043487, enabled=True)
7641     DefaultConnectionGene(key=(-49, 96), weight=-0.
770120774534289, enabled=True)
7642     DefaultConnectionGene(key=(-49, 97), weight=0.
7770383142895728, enabled=True)
7643     DefaultConnectionGene(key=(-49, 98), weight=-1.
0697920793397087, enabled=True)
7644     DefaultConnectionGene(key=(-49, 101), weight=0.
049520285075840276, enabled=False)
7645     DefaultConnectionGene(key=(-48, 96), weight=-2.
328793552541928, enabled=True)
7646     DefaultConnectionGene(key=(-48, 97), weight=-2.
34527726681338, enabled=True)
7647     DefaultConnectionGene(key=(-48, 98), weight=1.
3590402514682878, enabled=True)
7648     DefaultConnectionGene(key=(-48, 101), weight=0.
8504471397505957, enabled=True)
7649     DefaultConnectionGene(key=(-47, 96), weight=0.
43043759132096837, enabled=True)
7650     DefaultConnectionGene(key=(-47, 97), weight=3.
5200336763242293, enabled=True)
7651     DefaultConnectionGene(key=(-47, 101), weight=-0.
11804889481569805, enabled=True)
7652     DefaultConnectionGene(key=(-46, 96), weight=0.
7301748891309795, enabled=True)
7653     DefaultConnectionGene(key=(-46, 97), weight=-2.
168734145246211, enabled=True)
7654     DefaultConnectionGene(key=(-46, 98), weight=-3.
0624074096680993, enabled=True)
7655     DefaultConnectionGene(key=(-46, 101), weight=-1.
7671845839403864, enabled=True)
7656     DefaultConnectionGene(key=(-45, 96), weight=0.
47388695240389644, enabled=False)
7657     DefaultConnectionGene(key=(-45, 97), weight=1.
904752943452823, enabled=True)
7658     DefaultConnectionGene(key=(-45, 98), weight=3.
095777711839845, enabled=True)
7659     DefaultConnectionGene(key=(-45, 101), weight=1.
4324064950169262, enabled=True)
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7660      DefaultConnectionGene(key=(-44, 96), weight=0.  
13592276625704014, enabled=True)  
7661      DefaultConnectionGene(key=(-44, 97), weight=2.  
1495014440706153, enabled=True)  
7662      DefaultConnectionGene(key=(-44, 98), weight=-0.  
01672260516722457, enabled=True)  
7663      DefaultConnectionGene(key=(-44, 101), weight=2.  
6762647790777714, enabled=True)  
7664      DefaultConnectionGene(key=(-43, 96), weight=-3.  
9045059628216943, enabled=True)  
7665      DefaultConnectionGene(key=(-43, 97), weight=0.  
9462758603229072, enabled=True)  
7666      DefaultConnectionGene(key=(-43, 98), weight=0.  
36910799350116386, enabled=True)  
7667      DefaultConnectionGene(key=(-43, 101), weight=0.  
9170883503258489, enabled=True)  
7668      DefaultConnectionGene(key=(-42, 96), weight=0.  
08537411114094383, enabled=True)  
7669      DefaultConnectionGene(key=(-42, 97), weight=-0.  
023628188148794527, enabled=True)  
7670      DefaultConnectionGene(key=(-42, 98), weight=-2.  
41826396307864, enabled=True)  
7671      DefaultConnectionGene(key=(-42, 101), weight=0.  
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7672      DefaultConnectionGene(key=(-41, 9), weight=0.  
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7673      DefaultConnectionGene(key=(-41, 96), weight=-0.  
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7674      DefaultConnectionGene(key=(-41, 97), weight=-0.  
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7675      DefaultConnectionGene(key=(-41, 98), weight=1.  
4405742390703655, enabled=True)  
7676      DefaultConnectionGene(key=(-41, 101), weight=1.  
4292163332862082, enabled=False)  
7677      DefaultConnectionGene(key=(-40, 96), weight=-0.  
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7678      DefaultConnectionGene(key=(-40, 97), weight=-0.  
8383614324276543, enabled=True)  
7679      DefaultConnectionGene(key=(-40, 98), weight=-3.  
036818023157067, enabled=True)  
7680      DefaultConnectionGene(key=(-40, 101), weight=-1.  
.2463438753095395, enabled=True)  
7681      DefaultConnectionGene(key=(-39, 96), weight=2.  
182222033157149, enabled=True)
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7682     DefaultConnectionGene(key=(-39, 97), weight=-0.
5581677675369435, enabled=True)
7683     DefaultConnectionGene(key=(-39, 98), weight=2.
909415785666199, enabled=True)
7684     DefaultConnectionGene(key=(-39, 101), weight=-0.
8887403618031804, enabled=True)
7685     DefaultConnectionGene(key=(-38, 98), weight=4.
6326562737336285, enabled=True)
7686     DefaultConnectionGene(key=(-38, 101), weight=0.
9186294526905666, enabled=True)
7687     DefaultConnectionGene(key=(-37, 96), weight=0.
43978810649767053, enabled=True)
7688     DefaultConnectionGene(key=(-37, 97), weight=-1.
4634032724338901, enabled=True)
7689     DefaultConnectionGene(key=(-37, 98), weight=1.
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7690     DefaultConnectionGene(key=(-37, 101), weight=-0.
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7691     DefaultConnectionGene(key=(-36, 96), weight=-0.
7918437699744728, enabled=True)
7692     DefaultConnectionGene(key=(-36, 97), weight=-0.
2600119928454739, enabled=True)
7693     DefaultConnectionGene(key=(-36, 98), weight=1.
7606616750308737, enabled=True)
7694     DefaultConnectionGene(key=(-36, 101), weight=-0.
2689910405292849, enabled=True)
7695     DefaultConnectionGene(key=(-35, 96), weight=-0.
8837213774919747, enabled=True)
7696     DefaultConnectionGene(key=(-35, 97), weight=1.
5229308216624953, enabled=True)
7697     DefaultConnectionGene(key=(-35, 98), weight=-2.
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7698     DefaultConnectionGene(key=(-35, 101), weight=-1.
1548970525670896, enabled=True)
7699     DefaultConnectionGene(key=(-34, 96), weight=0.
11680163130559762, enabled=True)
7700     DefaultConnectionGene(key=(-34, 97), weight=-0.
02134756215970246, enabled=True)
7701     DefaultConnectionGene(key=(-34, 98), weight=-0.
917577305848554, enabled=True)
7702     DefaultConnectionGene(key=(-34, 101), weight=4.
184033098210992, enabled=True)
7703     DefaultConnectionGene(key=(-33, 96), weight=1.
1779456482206667, enabled=False)
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7704      DefaultConnectionGene(key=(-33, 97), weight=0.  
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7705      DefaultConnectionGene(key=(-33, 98), weight=0.  
3141222260087934, enabled=True)  
7706      DefaultConnectionGene(key=(-33, 101), weight=-0.  
.32996333257926114, enabled=True)  
7707      DefaultConnectionGene(key=(-32, 3), weight=0.  
0815156565832429, enabled=True)  
7708      DefaultConnectionGene(key=(-32, 96), weight=-4.  
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7709      DefaultConnectionGene(key=(-32, 97), weight=1.  
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7710      DefaultConnectionGene(key=(-32, 98), weight=0.  
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7711      DefaultConnectionGene(key=(-32, 101), weight=1.  
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7712      DefaultConnectionGene(key=(-31, 96), weight=-0.  
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7713      DefaultConnectionGene(key=(-31, 97), weight=-1.  
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7714      DefaultConnectionGene(key=(-31, 98), weight=0.  
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7715      DefaultConnectionGene(key=(-31, 101), weight=-0.  
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7716      DefaultConnectionGene(key=(-30, 10), weight=0.  
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7717      DefaultConnectionGene(key=(-30, 96), weight=0.  
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7718      DefaultConnectionGene(key=(-30, 97), weight=1.  
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7719      DefaultConnectionGene(key=(-30, 98), weight=-0.  
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7720      DefaultConnectionGene(key=(-30, 101), weight=0.  
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7721      DefaultConnectionGene(key=(-29, 96), weight=0.  
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7722      DefaultConnectionGene(key=(-29, 97), weight=-0.  
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7723      DefaultConnectionGene(key=(-29, 98), weight=0.  
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7724      DefaultConnectionGene(key=(-29, 101), weight=1.  
8483756675318077, enabled=True)  
7725      DefaultConnectionGene(key=(-28, 11), weight=1.  
6506483174232216, enabled=True)
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7726    DefaultConnectionGene(key=(-28, 96), weight=-2.  
2317665181310122, enabled=True)  
7727    DefaultConnectionGene(key=(-28, 97), weight=-0.  
8334787016106199, enabled=True)  
7728    DefaultConnectionGene(key=(-28, 98), weight=1.  
0230326257370028, enabled=True)  
7729    DefaultConnectionGene(key=(-28, 101), weight=-3  
.2265586879809804, enabled=True)  
7730    DefaultConnectionGene(key=(-27, 96), weight=0.  
8751677987609396, enabled=True)  
7731    DefaultConnectionGene(key=(-27, 97), weight=2.  
008922752453298, enabled=True)  
7732    DefaultConnectionGene(key=(-27, 98), weight=0.  
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7733    DefaultConnectionGene(key=(-27, 101), weight=-0  
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7734    DefaultConnectionGene(key=(-26, 96), weight=-2.  
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7735    DefaultConnectionGene(key=(-26, 97), weight=-4.  
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7736    DefaultConnectionGene(key=(-26, 98), weight=-2.  
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7737    DefaultConnectionGene(key=(-26, 101), weight=-1  
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7738    DefaultConnectionGene(key=(-25, 96), weight=-0.  
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7739    DefaultConnectionGene(key=(-25, 97), weight=-0.  
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7740    DefaultConnectionGene(key=(-25, 101), weight=2.  
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7743    DefaultConnectionGene(key=(-24, 98), weight=-0.  
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7744    DefaultConnectionGene(key=(-24, 101), weight=0.  
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7745    DefaultConnectionGene(key=(-23, 96), weight=-0.  
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7746    DefaultConnectionGene(key=(-23, 97), weight=-4.  
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7747    DefaultConnectionGene(key=(-23, 98), weight=-0.  
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7748     DefaultConnectionGene(key=(-23, 101), weight=1.  
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7749     DefaultConnectionGene(key=(-22, 96), weight=0.  
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7750     DefaultConnectionGene(key=(-22, 97), weight=2.  
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7751     DefaultConnectionGene(key=(-22, 98), weight=-0.  
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7752     DefaultConnectionGene(key=(-22, 101), weight=-1  
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7753     DefaultConnectionGene(key=(-21, 96), weight=-1.  
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7754     DefaultConnectionGene(key=(-21, 97), weight=1.  
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7755     DefaultConnectionGene(key=(-21, 98), weight=0.  
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7756     DefaultConnectionGene(key=(-21, 101), weight=0.  
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7757     DefaultConnectionGene(key=(-20, 11), weight=0.  
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7758     DefaultConnectionGene(key=(-20, 96), weight=-0.  
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7759     DefaultConnectionGene(key=(-20, 97), weight=-0.  
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7760     DefaultConnectionGene(key=(-20, 98), weight=-0.  
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7761     DefaultConnectionGene(key=(-20, 101), weight=-3  
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7762     DefaultConnectionGene(key=(-20, 536), weight=0.  
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7763     DefaultConnectionGene(key=(-19, 96), weight=-1.  
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7764     DefaultConnectionGene(key=(-19, 97), weight=0.  
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7765     DefaultConnectionGene(key=(-19, 98), weight=3.  
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7766     DefaultConnectionGene(key=(-19, 101), weight=-1  
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7767     DefaultConnectionGene(key=(-18, 96), weight=0.  
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7768     DefaultConnectionGene(key=(-18, 97), weight=0.  
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7769     DefaultConnectionGene(key=(-18, 98), weight=1.  
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```

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7770      DefaultConnectionGene(key=(-18, 101), weight=-0
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7771      DefaultConnectionGene(key=(-17, 96), weight=2.
5326730249091725, enabled=True)
7772      DefaultConnectionGene(key=(-17, 97), weight=0.
8968985489468069, enabled=False)
7773      DefaultConnectionGene(key=(-17, 98), weight=-0.
6916054870109726, enabled=True)
7774      DefaultConnectionGene(key=(-17, 101), weight=-2
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7775      DefaultConnectionGene(key=(-16, 2), weight=-0.
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7776      DefaultConnectionGene(key=(-16, 10), weight=-1.
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7777      DefaultConnectionGene(key=(-16, 96), weight=3.
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7784      DefaultConnectionGene(key=(-14, 97), weight=-4.
298378719687962, enabled=True)
7785      DefaultConnectionGene(key=(-14, 98), weight=-1.
916590964804509, enabled=True)
7786      DefaultConnectionGene(key=(-14, 101), weight=2.
228357241107516, enabled=True)
7787      DefaultConnectionGene(key=(-13, 96), weight=0.
9451891032815487, enabled=False)
7788      DefaultConnectionGene(key=(-13, 97), weight=1.
5471377226216034, enabled=True)
7789      DefaultConnectionGene(key=(-13, 98), weight=1.
935303048735662, enabled=True)
7790      DefaultConnectionGene(key=(-13, 101), weight=-2
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7791      DefaultConnectionGene(key=(-12, 96), weight=-1.
3967777024290597, enabled=True)

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7792     DefaultConnectionGene(key=(-12, 97), weight=-0.  
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7793     DefaultConnectionGene(key=(-12, 98), weight=2.  
5642052116150493, enabled=True)  
7794     DefaultConnectionGene(key=(-11, 96), weight=1.  
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7795     DefaultConnectionGene(key=(-11, 97), weight=-1.  
5551974678271057, enabled=True)  
7796     DefaultConnectionGene(key=(-11, 98), weight=-0.  
451992898419115, enabled=True)  
7797     DefaultConnectionGene(key=(-11, 101), weight=0.  
7517214967214427, enabled=True)  
7798     DefaultConnectionGene(key=(-10, 96), weight=-2.  
998017270943626, enabled=True)  
7799     DefaultConnectionGene(key=(-10, 97), weight=1.  
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7800     DefaultConnectionGene(key=(-10, 98), weight=1.  
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7801     DefaultConnectionGene(key=(-10, 101), weight=0.  
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7802     DefaultConnectionGene(key=(-9, 96), weight=4.  
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7803     DefaultConnectionGene(key=(-9, 97), weight=-0.  
2310709923084627, enabled=False)  
7804     DefaultConnectionGene(key=(-9, 98), weight=-0.  
7632737389110497, enabled=True)  
7805     DefaultConnectionGene(key=(-9, 101), weight=-0.  
17822394891248727, enabled=True)  
7806     DefaultConnectionGene(key=(-8, 96), weight=0.  
6349166977259875, enabled=True)  
7807     DefaultConnectionGene(key=(-8, 97), weight=0.  
029393889524135075, enabled=True)  
7808     DefaultConnectionGene(key=(-8, 98), weight=0.  
3431884764086421, enabled=True)  
7809     DefaultConnectionGene(key=(-8, 101), weight=-2.  
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7810     DefaultConnectionGene(key=(-7, 7), weight=-0.  
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7811     DefaultConnectionGene(key=(-7, 96), weight=-1.  
386221199630362, enabled=True)  
7812     DefaultConnectionGene(key=(-7, 97), weight=0.  
20902484518855793, enabled=True)  
7813     DefaultConnectionGene(key=(-7, 101), weight=1.  
0073795417438915, enabled=True)
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7814      DefaultConnectionGene(key=(-6, 96), weight=1.
    3054696864039539, enabled=False)
7815      DefaultConnectionGene(key=(-6, 97), weight=4.
    190200362158611, enabled=True)
7816      DefaultConnectionGene(key=(-6, 98), weight=-0.
    7051044293810126, enabled=False)
7817      DefaultConnectionGene(key=(-6, 101), weight=1.
    4917297301381416, enabled=True)
7818      DefaultConnectionGene(key=(-5, 96), weight=-0.
    7233723473734767, enabled=True)
7819      DefaultConnectionGene(key=(-5, 97), weight=0.
    33649995987051656, enabled=True)
7820      DefaultConnectionGene(key=(-5, 98), weight=0.
    31018848808811983, enabled=True)
7821      DefaultConnectionGene(key=(-5, 101), weight=-0.
    27354589498814325, enabled=True)
7822      DefaultConnectionGene(key=(-4, 96), weight=-3.
    6939485963056256, enabled=True)
7823      DefaultConnectionGene(key=(-4, 97), weight=0.
    8138306231436553, enabled=True)
7824      DefaultConnectionGene(key=(-4, 98), weight=0.
    22822960803443487, enabled=True)
7825      DefaultConnectionGene(key=(-3, 96), weight=-0.
    046304207969334765, enabled=True)
7826      DefaultConnectionGene(key=(-3, 97), weight=-4.
    778878428083534, enabled=True)
7827      DefaultConnectionGene(key=(-3, 98), weight=1.
    253475609278018, enabled=True)
7828      DefaultConnectionGene(key=(-3, 101), weight=1.
    1637485745841956, enabled=True)
7829      DefaultConnectionGene(key=(-2, 96), weight=1.
    3139533736097126, enabled=True)
7830      DefaultConnectionGene(key=(-2, 97), weight=-1.
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7831      DefaultConnectionGene(key=(-2, 98), weight=2.
    2026551159937244, enabled=True)
7832      DefaultConnectionGene(key=(-2, 101), weight=-1.
    7241567919219443, enabled=True)
7833      DefaultConnectionGene(key=(-1, 96), weight=0.
    23394846206249237, enabled=True)
7834      DefaultConnectionGene(key=(-1, 97), weight=-0.
    35785698024413537, enabled=True)
7835      DefaultConnectionGene(key=(-1, 98), weight=1.
    233556998710897, enabled=True)

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7836    DefaultConnectionGene(key=(-1, 101), weight=0.  
5460657739213801, enabled=False)  
7837    DefaultConnectionGene(key=(96, 0), weight=-2.  
136449992662885, enabled=True)  
7838    DefaultConnectionGene(key=(96, 1), weight=0.  
7842382880417476, enabled=True)  
7839    DefaultConnectionGene(key=(96, 2), weight=-0.  
18252249525152836, enabled=True)  
7840    DefaultConnectionGene(key=(96, 3), weight=1.  
127440288188198, enabled=True)  
7841    DefaultConnectionGene(key=(96, 4), weight=2.  
6969019022267346, enabled=True)  
7842    DefaultConnectionGene(key=(96, 5), weight=1.  
5276311925931796, enabled=True)  
7843    DefaultConnectionGene(key=(96, 6), weight=0.  
21033069128897264, enabled=False)  
7844    DefaultConnectionGene(key=(96, 7), weight=-2.  
6838541964182996, enabled=False)  
7845    DefaultConnectionGene(key=(96, 8), weight=0.  
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7846    DefaultConnectionGene(key=(96, 9), weight=-4.  
8360289150285585, enabled=True)  
7847    DefaultConnectionGene(key=(96, 10), weight=0.  
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7848    DefaultConnectionGene(key=(96, 11), weight=0.  
8485431814336386, enabled=True)  
7849    DefaultConnectionGene(key=(97, 0), weight=-0.  
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7850    DefaultConnectionGene(key=(97, 1), weight=-0.  
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7851    DefaultConnectionGene(key=(97, 2), weight=0.  
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7852    DefaultConnectionGene(key=(97, 3), weight=-2.  
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7853    DefaultConnectionGene(key=(97, 4), weight=-1.  
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7854    DefaultConnectionGene(key=(97, 5), weight=2.  
2202374637236115, enabled=True)  
7855    DefaultConnectionGene(key=(97, 6), weight=1.  
0379569669356934, enabled=True)  
7856    DefaultConnectionGene(key=(97, 7), weight=2.  
010821238422382, enabled=True)  
7857    DefaultConnectionGene(key=(97, 8), weight=-1.  
2146518256125591, enabled=True)
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7858     DefaultConnectionGene(key=(97, 9), weight=4.  
204872914256342, enabled=True)  
7859     DefaultConnectionGene(key=(97, 10), weight=0.  
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7860     DefaultConnectionGene(key=(97, 11), weight=2.  
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7861     DefaultConnectionGene(key=(98, 0), weight=-1.  
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7862     DefaultConnectionGene(key=(98, 1), weight=-0.  
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7863     DefaultConnectionGene(key=(98, 2), weight=0.  
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7864     DefaultConnectionGene(key=(98, 3), weight=-3.  
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7865     DefaultConnectionGene(key=(98, 4), weight=-1.  
1063186705028154, enabled=True)  
7866     DefaultConnectionGene(key=(98, 5), weight=-0.  
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7867     DefaultConnectionGene(key=(98, 6), weight=-0.  
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7868     DefaultConnectionGene(key=(98, 7), weight=1.  
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7869     DefaultConnectionGene(key=(98, 8), weight=-0.  
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7870     DefaultConnectionGene(key=(98, 9), weight=-0.  
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7872     DefaultConnectionGene(key=(98, 11), weight=-3.  
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7873     DefaultConnectionGene(key=(98, 500), weight=0.  
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7874     DefaultConnectionGene(key=(101, 0), weight=-3.  
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7875     DefaultConnectionGene(key=(101, 1), weight=1.  
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7876     DefaultConnectionGene(key=(101, 2), weight=0.  
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7877     DefaultConnectionGene(key=(101, 3), weight=1.  
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7878     DefaultConnectionGene(key=(101, 4), weight=-0.  
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7879     DefaultConnectionGene(key=(101, 5), weight=-1.  
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7880     DefaultConnectionGene(key=(101, 6), weight=-2.
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7881     DefaultConnectionGene(key=(101, 7), weight=2.
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7882     DefaultConnectionGene(key=(101, 8), weight=1.
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7883     DefaultConnectionGene(key=(101, 9), weight=-0.
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7884     DefaultConnectionGene(key=(101, 10), weight=-1.
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7885     DefaultConnectionGene(key=(101, 11), weight=-0.
    6536036976654362, enabled=True)
7886     DefaultConnectionGene(key=(500, 4), weight=-2.
    232261791490797, enabled=False)
7887     DefaultConnectionGene(key=(536, 11), weight=-2.
    0473172333186564, enabled=True)
7888 libpng warning: iCCP: known incorrect sRGB profile
7889 libpng warning: iCCP: known incorrect sRGB profile
7890 libpng warning: iCCP: known incorrect sRGB profile
7891
7892 Process finished with exit code 0
7893
```