

Harpreet Singh
harpreets@nevada.unr.edu

Code Repo: <https://github.com/harpreets652/genetic-algorithms-submit>

Algorithm: Using the solution to the simple hill climber (first have 1's, and the rest 0's) which evaluates to a fitness of 70, the algorithm randomly flips a random number of bits in the second half of the candidate solution vector. Even with 500,000,000 million iterations, the algorithm could not find a solution with a fitness greater than 70.

Output: After every million iterations, the time and current best fitness score
harpreetsingh@ubuntu:/mnt/hgfs/harpreetsingh/github/genetic-algorithms/HillClimber\$ g++ -std=c++0x -pthread -o secondClimber RandomHillClimber.cpp provided/eval1.o

harpreetsingh@ubuntu:/mnt/hgfs/harpreetsingh/github/genetic-algorithms/HillClimber\$./secondClimber

launched 1 threads

iteration : 0, Tue Sep 12 14:47:33 2017

----->current fitness: 0

iteration : 1000000, Tue Sep 12 14:47:37 2017

----->current fitness: 70

iteration : 2000000, Tue Sep 12 14:47:41 2017

----->current fitness: 70

iteration : 3000000, Tue Sep 12 14:47:45 2017

----->current fitness: 70

iteration : 4000000, Tue Sep 12 14:47:49 2017

----->current fitness: 70

iteration : 5000000, Tue Sep 12 14:47:53 2017

----->current fitness: 70

iteration : 6000000, Tue Sep 12 14:47:56 2017

----->current fitness: 70

iteration : 7000000, Tue Sep 12 14:48:00 2017

----->current fitness: 70

iteration : 8000000, Tue Sep 12 14:48:03 2017

----->current fitness: 70

iteration : 9000000, Tue Sep 12 14:48:07 2017

----->current fitness: 70

iteration : 10000000, Tue Sep 12 14:48:11 2017

----->current fitness: 70

iteration : 11000000, Tue Sep 12 14:48:14 2017

----->current fitness: 70

iteration : 12000000, Tue Sep 12 14:48:18 2017

----->current fitness: 70

iteration : 13000000, Tue Sep 12 14:48:21 2017
----->current fitness: 70
iteration : 14000000, Tue Sep 12 14:48:25 2017
----->current fitness: 70
iteration : 15000000, Tue Sep 12 14:48:29 2017
----->current fitness: 70
iteration : 16000000, Tue Sep 12 14:48:33 2017
----->current fitness: 70
iteration : 17000000, Tue Sep 12 14:48:37 2017
----->current fitness: 70
iteration : 18000000, Tue Sep 12 14:48:41 2017
----->current fitness: 70
iteration : 19000000, Tue Sep 12 14:48:45 2017
----->current fitness: 70
iteration : 20000000, Tue Sep 12 14:48:49 2017
----->current fitness: 70
iteration : 21000000, Tue Sep 12 14:48:53 2017
----->current fitness: 70
iteration : 22000000, Tue Sep 12 14:48:57 2017
----->current fitness: 70
iteration : 23000000, Tue Sep 12 14:49:01 2017
----->current fitness: 70
iteration : 24000000, Tue Sep 12 14:49:05 2017
----->current fitness: 70
iteration : 25000000, Tue Sep 12 14:49:08 2017
----->current fitness: 70
iteration : 26000000, Tue Sep 12 14:49:12 2017
----->current fitness: 70
iteration : 27000000, Tue Sep 12 14:49:16 2017
----->current fitness: 70
iteration : 28000000, Tue Sep 12 14:49:20 2017
----->current fitness: 70
iteration : 29000000, Tue Sep 12 14:49:24 2017
----->current fitness: 70
iteration : 30000000, Tue Sep 12 14:49:27 2017
----->current fitness: 70
iteration : 31000000, Tue Sep 12 14:49:31 2017
----->current fitness: 70
iteration : 32000000, Tue Sep 12 14:49:35 2017
----->current fitness: 70
iteration : 33000000, Tue Sep 12 14:49:39 2017
----->current fitness: 70
iteration : 34000000, Tue Sep 12 14:49:43 2017
----->current fitness: 70

iteration : 35000000, Tue Sep 12 14:49:49 2017
----->current fitness: 70
iteration : 36000000, Tue Sep 12 14:49:52 2017
----->current fitness: 70
iteration : 37000000, Tue Sep 12 14:49:56 2017
----->current fitness: 70
iteration : 38000000, Tue Sep 12 14:50:00 2017
----->current fitness: 70
iteration : 39000000, Tue Sep 12 14:50:04 2017
----->current fitness: 70
iteration : 40000000, Tue Sep 12 14:50:08 2017
----->current fitness: 70
iteration : 41000000, Tue Sep 12 14:50:12 2017
----->current fitness: 70
iteration : 42000000, Tue Sep 12 14:50:16 2017
----->current fitness: 70
iteration : 43000000, Tue Sep 12 14:50:19 2017
----->current fitness: 70
iteration : 44000000, Tue Sep 12 14:50:23 2017
----->current fitness: 70
iteration : 45000000, Tue Sep 12 14:50:27 2017
----->current fitness: 70
iteration : 46000000, Tue Sep 12 14:50:31 2017
----->current fitness: 70
iteration : 47000000, Tue Sep 12 14:50:35 2017
----->current fitness: 70
iteration : 48000000, Tue Sep 12 14:50:39 2017
----->current fitness: 70
iteration : 49000000, Tue Sep 12 14:50:43 2017
----->current fitness: 70
iteration : 50000000, Tue Sep 12 14:50:47 2017
----->current fitness: 70
iteration : 51000000, Tue Sep 12 14:50:50 2017
----->current fitness: 70
iteration : 52000000, Tue Sep 12 14:50:54 2017
----->current fitness: 70
iteration : 53000000, Tue Sep 12 14:50:58 2017
----->current fitness: 70
iteration : 54000000, Tue Sep 12 14:51:02 2017
----->current fitness: 70
iteration : 55000000, Tue Sep 12 14:51:06 2017
----->current fitness: 70
iteration : 56000000, Tue Sep 12 14:51:10 2017
----->current fitness: 70

iteration : 57000000, Tue Sep 12 14:51:14 2017
----->current fitness: 70
iteration : 58000000, Tue Sep 12 14:51:18 2017
----->current fitness: 70
iteration : 59000000, Tue Sep 12 14:51:22 2017
----->current fitness: 70
iteration : 60000000, Tue Sep 12 14:51:25 2017
----->current fitness: 70
iteration : 61000000, Tue Sep 12 14:51:29 2017
----->current fitness: 70
iteration : 62000000, Tue Sep 12 14:51:33 2017
----->current fitness: 70
iteration : 63000000, Tue Sep 12 14:51:36 2017
----->current fitness: 70
iteration : 64000000, Tue Sep 12 14:51:40 2017
----->current fitness: 70
iteration : 65000000, Tue Sep 12 14:51:44 2017
----->current fitness: 70
iteration : 66000000, Tue Sep 12 14:51:48 2017
----->current fitness: 70
iteration : 67000000, Tue Sep 12 14:51:51 2017
----->current fitness: 70
iteration : 68000000, Tue Sep 12 14:51:55 2017
----->current fitness: 70
iteration : 69000000, Tue Sep 12 14:51:59 2017
----->current fitness: 70
iteration : 70000000, Tue Sep 12 14:52:03 2017
----->current fitness: 70
iteration : 71000000, Tue Sep 12 14:52:06 2017
----->current fitness: 70
iteration : 72000000, Tue Sep 12 14:52:10 2017
----->current fitness: 70
iteration : 73000000, Tue Sep 12 14:52:14 2017
----->current fitness: 70
iteration : 74000000, Tue Sep 12 14:52:17 2017
----->current fitness: 70
iteration : 75000000, Tue Sep 12 14:52:21 2017
----->current fitness: 70
iteration : 76000000, Tue Sep 12 14:52:24 2017
----->current fitness: 70
iteration : 77000000, Tue Sep 12 14:52:28 2017
----->current fitness: 70
iteration : 78000000, Tue Sep 12 14:52:32 2017
----->current fitness: 70

iteration : 79000000, Tue Sep 12 14:52:35 2017
----->current fitness: 70
iteration : 80000000, Tue Sep 12 14:52:39 2017
----->current fitness: 70
iteration : 81000000, Tue Sep 12 14:52:42 2017
----->current fitness: 70
iteration : 82000000, Tue Sep 12 14:52:46 2017
----->current fitness: 70
iteration : 83000000, Tue Sep 12 14:52:49 2017
----->current fitness: 70
iteration : 84000000, Tue Sep 12 14:52:53 2017
----->current fitness: 70
iteration : 85000000, Tue Sep 12 14:52:56 2017
----->current fitness: 70
iteration : 86000000, Tue Sep 12 14:53:00 2017
----->current fitness: 70
iteration : 87000000, Tue Sep 12 14:53:03 2017
----->current fitness: 70
iteration : 88000000, Tue Sep 12 14:53:07 2017
----->current fitness: 70
iteration : 89000000, Tue Sep 12 14:53:11 2017
----->current fitness: 70
iteration : 90000000, Tue Sep 12 14:53:15 2017
----->current fitness: 70
iteration : 91000000, Tue Sep 12 14:53:19 2017
----->current fitness: 70
iteration : 92000000, Tue Sep 12 14:53:22 2017
----->current fitness: 70
iteration : 93000000, Tue Sep 12 14:53:26 2017
----->current fitness: 70
iteration : 94000000, Tue Sep 12 14:53:30 2017
----->current fitness: 70
iteration : 95000000, Tue Sep 12 14:53:34 2017
----->current fitness: 70
iteration : 96000000, Tue Sep 12 14:53:38 2017
----->current fitness: 70
iteration : 97000000, Tue Sep 12 14:53:41 2017
----->current fitness: 70
iteration : 98000000, Tue Sep 12 14:53:45 2017
----->current fitness: 70
iteration : 99000000, Tue Sep 12 14:53:48 2017
----->current fitness: 70
iteration : 100000000, Tue Sep 12 14:53:52 2017
----->current fitness: 70

iteration : 101000000, Tue Sep 12 14:53:56 2017
----->current fitness: 70
iteration : 102000000, Tue Sep 12 14:54:00 2017
----->current fitness: 70
iteration : 103000000, Tue Sep 12 14:54:03 2017
----->current fitness: 70
iteration : 104000000, Tue Sep 12 14:54:07 2017
----->current fitness: 70
iteration : 105000000, Tue Sep 12 14:54:11 2017
----->current fitness: 70
iteration : 106000000, Tue Sep 12 14:54:15 2017
----->current fitness: 70
iteration : 107000000, Tue Sep 12 14:54:18 2017
----->current fitness: 70
iteration : 108000000, Tue Sep 12 14:54:22 2017
----->current fitness: 70
iteration : 109000000, Tue Sep 12 14:54:25 2017
----->current fitness: 70
iteration : 110000000, Tue Sep 12 14:54:29 2017
----->current fitness: 70
iteration : 111000000, Tue Sep 12 14:54:33 2017
----->current fitness: 70
iteration : 112000000, Tue Sep 12 14:54:36 2017
----->current fitness: 70
iteration : 113000000, Tue Sep 12 14:54:40 2017
----->current fitness: 70
iteration : 114000000, Tue Sep 12 14:54:44 2017
----->current fitness: 70
iteration : 115000000, Tue Sep 12 14:54:48 2017
----->current fitness: 70
iteration : 116000000, Tue Sep 12 14:54:51 2017
----->current fitness: 70
iteration : 117000000, Tue Sep 12 14:54:55 2017
----->current fitness: 70
iteration : 118000000, Tue Sep 12 14:54:59 2017
----->current fitness: 70
iteration : 119000000, Tue Sep 12 14:55:02 2017
----->current fitness: 70
iteration : 120000000, Tue Sep 12 14:55:06 2017
----->current fitness: 70
iteration : 121000000, Tue Sep 12 14:55:10 2017
----->current fitness: 70
iteration : 122000000, Tue Sep 12 14:55:13 2017
----->current fitness: 70

iteration : 123000000, Tue Sep 12 14:55:17 2017
----->current fitness: 70
iteration : 124000000, Tue Sep 12 14:55:21 2017
----->current fitness: 70
iteration : 125000000, Tue Sep 12 14:55:24 2017
----->current fitness: 70
iteration : 126000000, Tue Sep 12 14:55:28 2017
----->current fitness: 70
iteration : 127000000, Tue Sep 12 14:55:32 2017
----->current fitness: 70
iteration : 128000000, Tue Sep 12 14:55:35 2017
----->current fitness: 70
iteration : 129000000, Tue Sep 12 14:55:39 2017
----->current fitness: 70
iteration : 130000000, Tue Sep 12 14:55:43 2017
----->current fitness: 70
iteration : 131000000, Tue Sep 12 14:55:47 2017
----->current fitness: 70
iteration : 132000000, Tue Sep 12 14:55:50 2017
----->current fitness: 70
iteration : 133000000, Tue Sep 12 14:55:54 2017
----->current fitness: 70
iteration : 134000000, Tue Sep 12 14:55:58 2017
----->current fitness: 70
iteration : 135000000, Tue Sep 12 14:56:02 2017
----->current fitness: 70
iteration : 136000000, Tue Sep 12 14:56:05 2017
----->current fitness: 70
iteration : 137000000, Tue Sep 12 14:56:09 2017
----->current fitness: 70
iteration : 138000000, Tue Sep 12 14:56:12 2017
----->current fitness: 70
iteration : 139000000, Tue Sep 12 14:56:16 2017
----->current fitness: 70
iteration : 140000000, Tue Sep 12 14:56:20 2017
----->current fitness: 70
iteration : 141000000, Tue Sep 12 14:56:23 2017
----->current fitness: 70
iteration : 142000000, Tue Sep 12 14:56:27 2017
----->current fitness: 70
iteration : 143000000, Tue Sep 12 14:56:31 2017
----->current fitness: 70
iteration : 144000000, Tue Sep 12 14:56:34 2017
----->current fitness: 70

iteration : 145000000, Tue Sep 12 14:56:38 2017
----->current fitness: 70
iteration : 146000000, Tue Sep 12 14:56:42 2017
----->current fitness: 70
iteration : 147000000, Tue Sep 12 14:56:46 2017
----->current fitness: 70
iteration : 148000000, Tue Sep 12 14:56:49 2017
----->current fitness: 70
iteration : 149000000, Tue Sep 12 14:56:53 2017
----->current fitness: 70
iteration : 150000000, Tue Sep 12 14:56:56 2017
----->current fitness: 70
iteration : 151000000, Tue Sep 12 14:57:00 2017
----->current fitness: 70
iteration : 152000000, Tue Sep 12 14:57:03 2017
----->current fitness: 70
iteration : 153000000, Tue Sep 12 14:57:07 2017
----->current fitness: 70
iteration : 154000000, Tue Sep 12 14:57:11 2017
----->current fitness: 70
iteration : 155000000, Tue Sep 12 14:57:15 2017
----->current fitness: 70
iteration : 156000000, Tue Sep 12 14:57:19 2017
----->current fitness: 70
iteration : 157000000, Tue Sep 12 14:57:23 2017
----->current fitness: 70
iteration : 158000000, Tue Sep 12 14:57:26 2017
----->current fitness: 70
iteration : 159000000, Tue Sep 12 14:57:30 2017
----->current fitness: 70
iteration : 160000000, Tue Sep 12 14:57:34 2017
----->current fitness: 70
iteration : 161000000, Tue Sep 12 14:57:38 2017
----->current fitness: 70
iteration : 162000000, Tue Sep 12 14:57:42 2017
----->current fitness: 70
iteration : 163000000, Tue Sep 12 14:57:46 2017
----->current fitness: 70
iteration : 164000000, Tue Sep 12 14:57:49 2017
----->current fitness: 70
iteration : 165000000, Tue Sep 12 14:57:53 2017
----->current fitness: 70
iteration : 166000000, Tue Sep 12 14:57:57 2017
----->current fitness: 70

iteration : 167000000, Tue Sep 12 14:58:01 2017
----->current fitness: 70
iteration : 168000000, Tue Sep 12 14:58:04 2017
----->current fitness: 70
iteration : 169000000, Tue Sep 12 14:58:08 2017
----->current fitness: 70
iteration : 170000000, Tue Sep 12 14:58:11 2017
----->current fitness: 70
iteration : 171000000, Tue Sep 12 14:58:15 2017
----->current fitness: 70
iteration : 172000000, Tue Sep 12 14:58:19 2017
----->current fitness: 70
iteration : 173000000, Tue Sep 12 14:58:23 2017
----->current fitness: 70
iteration : 174000000, Tue Sep 12 14:58:27 2017
----->current fitness: 70
iteration : 175000000, Tue Sep 12 14:58:30 2017
----->current fitness: 70
iteration : 176000000, Tue Sep 12 14:58:34 2017
----->current fitness: 70
iteration : 177000000, Tue Sep 12 14:58:37 2017
----->current fitness: 70
iteration : 178000000, Tue Sep 12 14:58:41 2017
----->current fitness: 70
iteration : 179000000, Tue Sep 12 14:58:45 2017
----->current fitness: 70
iteration : 180000000, Tue Sep 12 14:58:49 2017
----->current fitness: 70
iteration : 181000000, Tue Sep 12 14:58:53 2017
----->current fitness: 70
iteration : 182000000, Tue Sep 12 14:58:57 2017
----->current fitness: 70
iteration : 183000000, Tue Sep 12 14:59:00 2017
----->current fitness: 70
iteration : 184000000, Tue Sep 12 14:59:04 2017
----->current fitness: 70
iteration : 185000000, Tue Sep 12 14:59:07 2017
----->current fitness: 70
iteration : 186000000, Tue Sep 12 14:59:11 2017
----->current fitness: 70
iteration : 187000000, Tue Sep 12 14:59:15 2017
----->current fitness: 70
iteration : 188000000, Tue Sep 12 14:59:18 2017
----->current fitness: 70

iteration : 189000000, Tue Sep 12 14:59:22 2017
----->current fitness: 70
iteration : 190000000, Tue Sep 12 14:59:25 2017
----->current fitness: 70
iteration : 191000000, Tue Sep 12 14:59:29 2017
----->current fitness: 70
iteration : 192000000, Tue Sep 12 14:59:32 2017
----->current fitness: 70
iteration : 193000000, Tue Sep 12 14:59:36 2017
----->current fitness: 70
iteration : 194000000, Tue Sep 12 14:59:40 2017
----->current fitness: 70
iteration : 195000000, Tue Sep 12 14:59:43 2017
----->current fitness: 70
iteration : 196000000, Tue Sep 12 14:59:47 2017
----->current fitness: 70
iteration : 197000000, Tue Sep 12 14:59:50 2017
----->current fitness: 70
iteration : 198000000, Tue Sep 12 14:59:54 2017
----->current fitness: 70
iteration : 199000000, Tue Sep 12 14:59:58 2017
----->current fitness: 70
iteration : 200000000, Tue Sep 12 15:00:01 2017
----->current fitness: 70
iteration : 201000000, Tue Sep 12 15:00:05 2017
----->current fitness: 70
iteration : 202000000, Tue Sep 12 15:00:09 2017
----->current fitness: 70
iteration : 203000000, Tue Sep 12 15:00:12 2017
----->current fitness: 70
iteration : 204000000, Tue Sep 12 15:00:16 2017
----->current fitness: 70
iteration : 205000000, Tue Sep 12 15:00:20 2017
----->current fitness: 70
iteration : 206000000, Tue Sep 12 15:00:24 2017
----->current fitness: 70
iteration : 207000000, Tue Sep 12 15:00:28 2017
----->current fitness: 70
iteration : 208000000, Tue Sep 12 15:00:32 2017
----->current fitness: 70
iteration : 209000000, Tue Sep 12 15:00:36 2017
----->current fitness: 70
iteration : 210000000, Tue Sep 12 15:00:40 2017
----->current fitness: 70

iteration : 211000000, Tue Sep 12 15:00:44 2017
----->current fitness: 70
iteration : 212000000, Tue Sep 12 15:00:47 2017
----->current fitness: 70
iteration : 213000000, Tue Sep 12 15:00:51 2017
----->current fitness: 70
iteration : 214000000, Tue Sep 12 15:00:54 2017
----->current fitness: 70
iteration : 215000000, Tue Sep 12 15:00:58 2017
----->current fitness: 70
iteration : 216000000, Tue Sep 12 15:01:02 2017
----->current fitness: 70
iteration : 217000000, Tue Sep 12 15:01:06 2017
----->current fitness: 70
iteration : 218000000, Tue Sep 12 15:01:10 2017
----->current fitness: 70
iteration : 219000000, Tue Sep 12 15:01:14 2017
----->current fitness: 70
iteration : 220000000, Tue Sep 12 15:01:18 2017
----->current fitness: 70
iteration : 221000000, Tue Sep 12 15:01:22 2017
----->current fitness: 70
iteration : 222000000, Tue Sep 12 15:01:26 2017
----->current fitness: 70
iteration : 223000000, Tue Sep 12 15:01:30 2017
----->current fitness: 70
iteration : 224000000, Tue Sep 12 15:01:34 2017
----->current fitness: 70
iteration : 225000000, Tue Sep 12 15:01:38 2017
----->current fitness: 70
iteration : 226000000, Tue Sep 12 15:01:42 2017
----->current fitness: 70
iteration : 227000000, Tue Sep 12 15:01:46 2017
----->current fitness: 70
iteration : 228000000, Tue Sep 12 15:01:50 2017
----->current fitness: 70
iteration : 229000000, Tue Sep 12 15:01:54 2017
----->current fitness: 70
iteration : 230000000, Tue Sep 12 15:01:57 2017
----->current fitness: 70
iteration : 231000000, Tue Sep 12 15:02:01 2017
----->current fitness: 70
iteration : 232000000, Tue Sep 12 15:02:05 2017
----->current fitness: 70

iteration : 233000000, Tue Sep 12 15:02:09 2017
----->current fitness: 70
iteration : 234000000, Tue Sep 12 15:02:13 2017
----->current fitness: 70
iteration : 235000000, Tue Sep 12 15:02:17 2017
----->current fitness: 70
iteration : 236000000, Tue Sep 12 15:02:21 2017
----->current fitness: 70
iteration : 237000000, Tue Sep 12 15:02:25 2017
----->current fitness: 70
iteration : 238000000, Tue Sep 12 15:02:28 2017
----->current fitness: 70
iteration : 239000000, Tue Sep 12 15:02:32 2017
----->current fitness: 70
iteration : 240000000, Tue Sep 12 15:02:36 2017
----->current fitness: 70
iteration : 241000000, Tue Sep 12 15:02:39 2017
----->current fitness: 70
iteration : 242000000, Tue Sep 12 15:02:43 2017
----->current fitness: 70
iteration : 243000000, Tue Sep 12 15:02:46 2017
----->current fitness: 70
iteration : 244000000, Tue Sep 12 15:02:50 2017
----->current fitness: 70
iteration : 245000000, Tue Sep 12 15:02:54 2017
----->current fitness: 70
iteration : 246000000, Tue Sep 12 15:02:58 2017
----->current fitness: 70
iteration : 247000000, Tue Sep 12 15:03:02 2017
----->current fitness: 70
iteration : 248000000, Tue Sep 12 15:03:06 2017
----->current fitness: 70
iteration : 249000000, Tue Sep 12 15:03:10 2017
----->current fitness: 70
iteration : 250000000, Tue Sep 12 15:03:14 2017
----->current fitness: 70
iteration : 251000000, Tue Sep 12 15:03:18 2017
----->current fitness: 70
iteration : 252000000, Tue Sep 12 15:03:22 2017
----->current fitness: 70
iteration : 253000000, Tue Sep 12 15:03:25 2017
----->current fitness: 70
iteration : 254000000, Tue Sep 12 15:03:29 2017
----->current fitness: 70

iteration : 255000000, Tue Sep 12 15:03:32 2017
----->current fitness: 70
iteration : 256000000, Tue Sep 12 15:03:36 2017
----->current fitness: 70
iteration : 257000000, Tue Sep 12 15:03:39 2017
----->current fitness: 70
iteration : 258000000, Tue Sep 12 15:03:43 2017
----->current fitness: 70
iteration : 259000000, Tue Sep 12 15:03:46 2017
----->current fitness: 70
iteration : 260000000, Tue Sep 12 15:03:50 2017
----->current fitness: 70
iteration : 261000000, Tue Sep 12 15:03:54 2017
----->current fitness: 70
iteration : 262000000, Tue Sep 12 15:03:58 2017
----->current fitness: 70
iteration : 263000000, Tue Sep 12 15:04:02 2017
----->current fitness: 70
iteration : 264000000, Tue Sep 12 15:04:06 2017
----->current fitness: 70
iteration : 265000000, Tue Sep 12 15:04:10 2017
----->current fitness: 70
iteration : 266000000, Tue Sep 12 15:04:14 2017
----->current fitness: 70
iteration : 267000000, Tue Sep 12 15:04:18 2017
----->current fitness: 70
iteration : 268000000, Tue Sep 12 15:04:22 2017
----->current fitness: 70
iteration : 269000000, Tue Sep 12 15:04:25 2017
----->current fitness: 70
iteration : 270000000, Tue Sep 12 15:04:29 2017
----->current fitness: 70
iteration : 271000000, Tue Sep 12 15:04:33 2017
----->current fitness: 70
iteration : 272000000, Tue Sep 12 15:04:37 2017
----->current fitness: 70
iteration : 273000000, Tue Sep 12 15:04:40 2017
----->current fitness: 70
iteration : 274000000, Tue Sep 12 15:04:44 2017
----->current fitness: 70
iteration : 275000000, Tue Sep 12 15:04:48 2017
----->current fitness: 70
iteration : 276000000, Tue Sep 12 15:04:52 2017
----->current fitness: 70

iteration : 277000000, Tue Sep 12 15:04:56 2017
----->current fitness: 70
iteration : 278000000, Tue Sep 12 15:04:59 2017
----->current fitness: 70
iteration : 279000000, Tue Sep 12 15:05:03 2017
----->current fitness: 70
iteration : 280000000, Tue Sep 12 15:05:06 2017
----->current fitness: 70
iteration : 281000000, Tue Sep 12 15:05:10 2017
----->current fitness: 70
iteration : 282000000, Tue Sep 12 15:05:13 2017
----->current fitness: 70
iteration : 283000000, Tue Sep 12 15:05:17 2017
----->current fitness: 70
iteration : 284000000, Tue Sep 12 15:05:20 2017
----->current fitness: 70
iteration : 285000000, Tue Sep 12 15:05:24 2017
----->current fitness: 70
iteration : 286000000, Tue Sep 12 15:05:28 2017
----->current fitness: 70
iteration : 287000000, Tue Sep 12 15:05:31 2017
----->current fitness: 70
iteration : 288000000, Tue Sep 12 15:05:35 2017
----->current fitness: 70
iteration : 289000000, Tue Sep 12 15:05:39 2017
----->current fitness: 70
iteration : 290000000, Tue Sep 12 15:05:42 2017
----->current fitness: 70
iteration : 291000000, Tue Sep 12 15:05:46 2017
----->current fitness: 70
iteration : 292000000, Tue Sep 12 15:05:49 2017
----->current fitness: 70
iteration : 293000000, Tue Sep 12 15:05:53 2017
----->current fitness: 70
iteration : 294000000, Tue Sep 12 15:05:56 2017
----->current fitness: 70
iteration : 295000000, Tue Sep 12 15:06:00 2017
----->current fitness: 70
iteration : 296000000, Tue Sep 12 15:06:03 2017
----->current fitness: 70
iteration : 297000000, Tue Sep 12 15:06:07 2017
----->current fitness: 70
iteration : 298000000, Tue Sep 12 15:06:10 2017
----->current fitness: 70

iteration : 299000000, Tue Sep 12 15:06:14 2017
----->current fitness: 70
iteration : 300000000, Tue Sep 12 15:06:17 2017
----->current fitness: 70
iteration : 301000000, Tue Sep 12 15:06:21 2017
----->current fitness: 70
iteration : 302000000, Tue Sep 12 15:06:24 2017
----->current fitness: 70
iteration : 303000000, Tue Sep 12 15:06:28 2017
----->current fitness: 70
iteration : 304000000, Tue Sep 12 15:06:31 2017
----->current fitness: 70
iteration : 305000000, Tue Sep 12 15:06:35 2017
----->current fitness: 70
iteration : 306000000, Tue Sep 12 15:06:38 2017
----->current fitness: 70
iteration : 307000000, Tue Sep 12 15:06:42 2017
----->current fitness: 70
iteration : 308000000, Tue Sep 12 15:06:46 2017
----->current fitness: 70
iteration : 309000000, Tue Sep 12 15:06:50 2017
----->current fitness: 70
iteration : 310000000, Tue Sep 12 15:06:54 2017
----->current fitness: 70
iteration : 311000000, Tue Sep 12 15:06:58 2017
----->current fitness: 70
iteration : 312000000, Tue Sep 12 15:07:02 2017
----->current fitness: 70
iteration : 313000000, Tue Sep 12 15:07:06 2017
----->current fitness: 70
iteration : 314000000, Tue Sep 12 15:07:09 2017
----->current fitness: 70
iteration : 315000000, Tue Sep 12 15:07:13 2017
----->current fitness: 70
iteration : 316000000, Tue Sep 12 15:07:17 2017
----->current fitness: 70
iteration : 317000000, Tue Sep 12 15:07:21 2017
----->current fitness: 70
iteration : 318000000, Tue Sep 12 15:07:25 2017
----->current fitness: 70
iteration : 319000000, Tue Sep 12 15:07:29 2017
----->current fitness: 70
iteration : 320000000, Tue Sep 12 15:07:32 2017
----->current fitness: 70

iteration : 321000000, Tue Sep 12 15:07:36 2017
----->current fitness: 70
iteration : 322000000, Tue Sep 12 15:07:40 2017
----->current fitness: 70
iteration : 323000000, Tue Sep 12 15:07:44 2017
----->current fitness: 70
iteration : 324000000, Tue Sep 12 15:07:48 2017
----->current fitness: 70
iteration : 325000000, Tue Sep 12 15:07:51 2017
----->current fitness: 70
iteration : 326000000, Tue Sep 12 15:07:55 2017
----->current fitness: 70
iteration : 327000000, Tue Sep 12 15:07:59 2017
----->current fitness: 70
iteration : 328000000, Tue Sep 12 15:08:03 2017
----->current fitness: 70
iteration : 329000000, Tue Sep 12 15:08:07 2017
----->current fitness: 70
iteration : 330000000, Tue Sep 12 15:08:11 2017
----->current fitness: 70
iteration : 331000000, Tue Sep 12 15:08:15 2017
----->current fitness: 70
iteration : 332000000, Tue Sep 12 15:08:20 2017
----->current fitness: 70
iteration : 333000000, Tue Sep 12 15:08:24 2017
----->current fitness: 70
iteration : 334000000, Tue Sep 12 15:08:28 2017
----->current fitness: 70
iteration : 335000000, Tue Sep 12 15:08:33 2017
----->current fitness: 70
iteration : 336000000, Tue Sep 12 15:08:37 2017
----->current fitness: 70
iteration : 337000000, Tue Sep 12 15:08:41 2017
----->current fitness: 70
iteration : 338000000, Tue Sep 12 15:08:45 2017
----->current fitness: 70
iteration : 339000000, Tue Sep 12 15:08:49 2017
----->current fitness: 70
iteration : 340000000, Tue Sep 12 15:08:53 2017
----->current fitness: 70
iteration : 341000000, Tue Sep 12 15:08:57 2017
----->current fitness: 70
iteration : 342000000, Tue Sep 12 15:09:01 2017
----->current fitness: 70

iteration : 343000000, Tue Sep 12 15:09:05 2017
----->current fitness: 70
iteration : 344000000, Tue Sep 12 15:09:09 2017
----->current fitness: 70
iteration : 345000000, Tue Sep 12 15:09:12 2017
----->current fitness: 70
iteration : 346000000, Tue Sep 12 15:09:16 2017
----->current fitness: 70
iteration : 347000000, Tue Sep 12 15:09:20 2017
----->current fitness: 70
iteration : 348000000, Tue Sep 12 15:09:24 2017
----->current fitness: 70
iteration : 349000000, Tue Sep 12 15:09:28 2017
----->current fitness: 70
iteration : 350000000, Tue Sep 12 15:09:31 2017
----->current fitness: 70
iteration : 351000000, Tue Sep 12 15:09:35 2017
----->current fitness: 70
iteration : 352000000, Tue Sep 12 15:09:38 2017
----->current fitness: 70
iteration : 353000000, Tue Sep 12 15:09:42 2017
----->current fitness: 70
iteration : 354000000, Tue Sep 12 15:09:46 2017
----->current fitness: 70
iteration : 355000000, Tue Sep 12 15:09:50 2017
----->current fitness: 70
iteration : 356000000, Tue Sep 12 15:09:54 2017
----->current fitness: 70
iteration : 357000000, Tue Sep 12 15:09:59 2017
----->current fitness: 70
iteration : 358000000, Tue Sep 12 15:10:03 2017
----->current fitness: 70
iteration : 359000000, Tue Sep 12 15:10:07 2017
----->current fitness: 70
iteration : 360000000, Tue Sep 12 15:10:11 2017
----->current fitness: 70
iteration : 361000000, Tue Sep 12 15:10:15 2017
----->current fitness: 70
iteration : 362000000, Tue Sep 12 15:10:18 2017
----->current fitness: 70
iteration : 363000000, Tue Sep 12 15:10:22 2017
----->current fitness: 70
iteration : 364000000, Tue Sep 12 15:10:26 2017
----->current fitness: 70

iteration : 365000000, Tue Sep 12 15:10:30 2017
----->current fitness: 70
iteration : 366000000, Tue Sep 12 15:10:34 2017
----->current fitness: 70
iteration : 367000000, Tue Sep 12 15:10:38 2017
----->current fitness: 70
iteration : 368000000, Tue Sep 12 15:10:42 2017
----->current fitness: 70
iteration : 369000000, Tue Sep 12 15:10:45 2017
----->current fitness: 70
iteration : 370000000, Tue Sep 12 15:10:49 2017
----->current fitness: 70
iteration : 371000000, Tue Sep 12 15:10:53 2017
----->current fitness: 70
iteration : 372000000, Tue Sep 12 15:10:57 2017
----->current fitness: 70
iteration : 373000000, Tue Sep 12 15:11:01 2017
----->current fitness: 70
iteration : 374000000, Tue Sep 12 15:11:04 2017
----->current fitness: 70
iteration : 375000000, Tue Sep 12 15:11:08 2017
----->current fitness: 70
iteration : 376000000, Tue Sep 12 15:11:12 2017
----->current fitness: 70
iteration : 377000000, Tue Sep 12 15:11:16 2017
----->current fitness: 70
iteration : 378000000, Tue Sep 12 15:11:20 2017
----->current fitness: 70
iteration : 379000000, Tue Sep 12 15:11:24 2017
----->current fitness: 70
iteration : 380000000, Tue Sep 12 15:11:28 2017
----->current fitness: 70
iteration : 381000000, Tue Sep 12 15:11:32 2017
----->current fitness: 70
iteration : 382000000, Tue Sep 12 15:11:36 2017
----->current fitness: 70
iteration : 383000000, Tue Sep 12 15:11:40 2017
----->current fitness: 70
iteration : 384000000, Tue Sep 12 15:11:45 2017
----->current fitness: 70
iteration : 385000000, Tue Sep 12 15:11:48 2017
----->current fitness: 70
iteration : 386000000, Tue Sep 12 15:11:52 2017
----->current fitness: 70

iteration : 387000000, Tue Sep 12 15:11:56 2017
----->current fitness: 70
iteration : 388000000, Tue Sep 12 15:12:00 2017
----->current fitness: 70
iteration : 389000000, Tue Sep 12 15:12:04 2017
----->current fitness: 70
iteration : 390000000, Tue Sep 12 15:12:08 2017
----->current fitness: 70
iteration : 391000000, Tue Sep 12 15:12:12 2017
----->current fitness: 70
iteration : 392000000, Tue Sep 12 15:12:16 2017
----->current fitness: 70
iteration : 393000000, Tue Sep 12 15:12:20 2017
----->current fitness: 70
iteration : 394000000, Tue Sep 12 15:12:23 2017
----->current fitness: 70
iteration : 395000000, Tue Sep 12 15:12:27 2017
----->current fitness: 70
iteration : 396000000, Tue Sep 12 15:12:31 2017
----->current fitness: 70
iteration : 397000000, Tue Sep 12 15:12:35 2017
----->current fitness: 70
iteration : 398000000, Tue Sep 12 15:12:39 2017
----->current fitness: 70
iteration : 399000000, Tue Sep 12 15:12:43 2017
----->current fitness: 70
iteration : 400000000, Tue Sep 12 15:12:46 2017
----->current fitness: 70
iteration : 401000000, Tue Sep 12 15:12:50 2017
----->current fitness: 70
iteration : 402000000, Tue Sep 12 15:12:54 2017
----->current fitness: 70
iteration : 403000000, Tue Sep 12 15:12:58 2017
----->current fitness: 70
iteration : 404000000, Tue Sep 12 15:13:01 2017
----->current fitness: 70
iteration : 405000000, Tue Sep 12 15:13:05 2017
----->current fitness: 70
iteration : 406000000, Tue Sep 12 15:13:09 2017
----->current fitness: 70
iteration : 407000000, Tue Sep 12 15:13:13 2017
----->current fitness: 70
iteration : 408000000, Tue Sep 12 15:13:17 2017
----->current fitness: 70

iteration : 409000000, Tue Sep 12 15:13:21 2017
----->current fitness: 70
iteration : 410000000, Tue Sep 12 15:13:24 2017
----->current fitness: 70
iteration : 411000000, Tue Sep 12 15:13:28 2017
----->current fitness: 70
iteration : 412000000, Tue Sep 12 15:13:32 2017
----->current fitness: 70
iteration : 413000000, Tue Sep 12 15:13:36 2017
----->current fitness: 70
iteration : 414000000, Tue Sep 12 15:13:40 2017
----->current fitness: 70
iteration : 415000000, Tue Sep 12 15:13:44 2017
----->current fitness: 70
iteration : 416000000, Tue Sep 12 15:13:48 2017
----->current fitness: 70
iteration : 417000000, Tue Sep 12 15:13:51 2017
----->current fitness: 70
iteration : 418000000, Tue Sep 12 15:13:56 2017
----->current fitness: 70
iteration : 419000000, Tue Sep 12 15:14:00 2017
----->current fitness: 70
iteration : 420000000, Tue Sep 12 15:14:04 2017
----->current fitness: 70
iteration : 421000000, Tue Sep 12 15:14:08 2017
----->current fitness: 70
iteration : 422000000, Tue Sep 12 15:14:12 2017
----->current fitness: 70
iteration : 423000000, Tue Sep 12 15:14:15 2017
----->current fitness: 70
iteration : 424000000, Tue Sep 12 15:14:19 2017
----->current fitness: 70
iteration : 425000000, Tue Sep 12 15:14:23 2017
----->current fitness: 70
iteration : 426000000, Tue Sep 12 15:14:26 2017
----->current fitness: 70
iteration : 427000000, Tue Sep 12 15:14:30 2017
----->current fitness: 70
iteration : 428000000, Tue Sep 12 15:14:34 2017
----->current fitness: 70
iteration : 429000000, Tue Sep 12 15:14:38 2017
----->current fitness: 70
iteration : 430000000, Tue Sep 12 15:14:42 2017
----->current fitness: 70

iteration : 431000000, Tue Sep 12 15:14:46 2017
----->current fitness: 70
iteration : 432000000, Tue Sep 12 15:14:50 2017
----->current fitness: 70
iteration : 433000000, Tue Sep 12 15:14:54 2017
----->current fitness: 70
iteration : 434000000, Tue Sep 12 15:14:58 2017
----->current fitness: 70
iteration : 435000000, Tue Sep 12 15:15:02 2017
----->current fitness: 70
iteration : 436000000, Tue Sep 12 15:15:06 2017
----->current fitness: 70
iteration : 437000000, Tue Sep 12 15:15:10 2017
----->current fitness: 70
iteration : 438000000, Tue Sep 12 15:15:13 2017
----->current fitness: 70
iteration : 439000000, Tue Sep 12 15:15:17 2017
----->current fitness: 70
iteration : 440000000, Tue Sep 12 15:15:21 2017
----->current fitness: 70
iteration : 441000000, Tue Sep 12 15:15:25 2017
----->current fitness: 70
iteration : 442000000, Tue Sep 12 15:15:29 2017
----->current fitness: 70
iteration : 443000000, Tue Sep 12 15:15:33 2017
----->current fitness: 70
iteration : 444000000, Tue Sep 12 15:15:37 2017
----->current fitness: 70
iteration : 445000000, Tue Sep 12 15:15:40 2017
----->current fitness: 70
iteration : 446000000, Tue Sep 12 15:15:44 2017
----->current fitness: 70
iteration : 447000000, Tue Sep 12 15:15:48 2017
----->current fitness: 70
iteration : 448000000, Tue Sep 12 15:15:52 2017
----->current fitness: 70
iteration : 449000000, Tue Sep 12 15:15:56 2017
----->current fitness: 70
iteration : 450000000, Tue Sep 12 15:16:00 2017
----->current fitness: 70
iteration : 451000000, Tue Sep 12 15:16:04 2017
----->current fitness: 70
iteration : 452000000, Tue Sep 12 15:16:08 2017
----->current fitness: 70

iteration : 453000000, Tue Sep 12 15:16:12 2017
----->current fitness: 70
iteration : 454000000, Tue Sep 12 15:16:16 2017
----->current fitness: 70
iteration : 455000000, Tue Sep 12 15:16:19 2017
----->current fitness: 70
iteration : 456000000, Tue Sep 12 15:16:24 2017
----->current fitness: 70
iteration : 457000000, Tue Sep 12 15:16:28 2017
----->current fitness: 70
iteration : 458000000, Tue Sep 12 15:16:32 2017
----->current fitness: 70
iteration : 459000000, Tue Sep 12 15:16:36 2017
----->current fitness: 70
iteration : 460000000, Tue Sep 12 15:16:40 2017
----->current fitness: 70
iteration : 461000000, Tue Sep 12 15:16:44 2017
----->current fitness: 70
iteration : 462000000, Tue Sep 12 15:16:48 2017
----->current fitness: 70
iteration : 463000000, Tue Sep 12 15:16:52 2017
----->current fitness: 70
iteration : 464000000, Tue Sep 12 15:16:56 2017
----->current fitness: 70
iteration : 465000000, Tue Sep 12 15:17:00 2017
----->current fitness: 70
iteration : 466000000, Tue Sep 12 15:17:04 2017
----->current fitness: 70
iteration : 467000000, Tue Sep 12 15:17:08 2017
----->current fitness: 70
iteration : 468000000, Tue Sep 12 15:17:12 2017
----->current fitness: 70
iteration : 469000000, Tue Sep 12 15:17:16 2017
----->current fitness: 70
iteration : 470000000, Tue Sep 12 15:17:20 2017
----->current fitness: 70
iteration : 471000000, Tue Sep 12 15:17:24 2017
----->current fitness: 70
iteration : 472000000, Tue Sep 12 15:17:28 2017
----->current fitness: 70
iteration : 473000000, Tue Sep 12 15:17:32 2017
----->current fitness: 70
iteration : 474000000, Tue Sep 12 15:17:36 2017
----->current fitness: 70

iteration : 475000000, Tue Sep 12 15:17:39 2017
----->current fitness: 70
iteration : 476000000, Tue Sep 12 15:17:43 2017
----->current fitness: 70
iteration : 477000000, Tue Sep 12 15:17:47 2017
----->current fitness: 70
iteration : 478000000, Tue Sep 12 15:17:50 2017
----->current fitness: 70
iteration : 479000000, Tue Sep 12 15:17:54 2017
----->current fitness: 70
iteration : 480000000, Tue Sep 12 15:17:58 2017
----->current fitness: 70
iteration : 481000000, Tue Sep 12 15:18:02 2017
----->current fitness: 70
iteration : 482000000, Tue Sep 12 15:18:06 2017
----->current fitness: 70
iteration : 483000000, Tue Sep 12 15:18:10 2017
----->current fitness: 70
iteration : 484000000, Tue Sep 12 15:18:14 2017
----->current fitness: 70
iteration : 485000000, Tue Sep 12 15:18:17 2017
----->current fitness: 70
iteration : 486000000, Tue Sep 12 15:18:21 2017
----->current fitness: 70
iteration : 487000000, Tue Sep 12 15:18:25 2017
----->current fitness: 70
iteration : 488000000, Tue Sep 12 15:18:29 2017
----->current fitness: 70
iteration : 489000000, Tue Sep 12 15:18:33 2017
----->current fitness: 70
iteration : 490000000, Tue Sep 12 15:18:36 2017
----->current fitness: 70
iteration : 491000000, Tue Sep 12 15:18:40 2017
----->current fitness: 70
iteration : 492000000, Tue Sep 12 15:18:44 2017
----->current fitness: 70
iteration : 493000000, Tue Sep 12 15:18:48 2017
----->current fitness: 70
iteration : 494000000, Tue Sep 12 15:18:52 2017
----->current fitness: 70
iteration : 495000000, Tue Sep 12 15:18:56 2017
----->current fitness: 70
iteration : 496000000, Tue Sep 12 15:19:00 2017
----->current fitness: 70

iteration : 497000000, Tue Sep 12 15:19:03 2017
----->current fitness: 70
iteration : 498000000, Tue Sep 12 15:19:07 2017
----->current fitness: 70
iteration : 499000000, Tue Sep 12 15:19:11 2017
----->current fitness: 70
iteration : 500000000, Tue Sep 12 15:19:15 2017
----->current fitness: 70
iteration : 501000000, Tue Sep 12 15:19:19 2017
----->current fitness: 70
iteration : 502000000, Tue Sep 12 15:19:23 2017
----->current fitness: 70
iteration : 503000000, Tue Sep 12 15:19:27 2017
----->current fitness: 70
iteration : 504000000, Tue Sep 12 15:19:31 2017
----->current fitness: 70
iteration : 505000000, Tue Sep 12 15:19:35 2017
----->current fitness: 70
iteration : 506000000, Tue Sep 12 15:19:39 2017
----->current fitness: 70
iteration : 507000000, Tue Sep 12 15:19:42 2017
----->current fitness: 70
iteration : 508000000, Tue Sep 12 15:19:46 2017
----->current fitness: 70
iteration : 509000000, Tue Sep 12 15:19:50 2017
----->current fitness: 70
iteration : 510000000, Tue Sep 12 15:19:53 2017
----->current fitness: 70
iteration : 511000000, Tue Sep 12 15:19:57 2017
----->current fitness: 70
iteration : 512000000, Tue Sep 12 15:20:00 2017
----->current fitness: 70
iteration : 513000000, Tue Sep 12 15:20:04 2017
----->current fitness: 70
iteration : 514000000, Tue Sep 12 15:20:07 2017
----->current fitness: 70
iteration : 515000000, Tue Sep 12 15:20:11 2017
----->current fitness: 70
iteration : 516000000, Tue Sep 12 15:20:14 2017
----->current fitness: 70
iteration : 517000000, Tue Sep 12 15:20:18 2017
----->current fitness: 70
iteration : 518000000, Tue Sep 12 15:20:21 2017
----->current fitness: 70

iteration : 519000000, Tue Sep 12 15:20:25 2017
----->current fitness: 70
iteration : 520000000, Tue Sep 12 15:20:28 2017
----->current fitness: 70
iteration : 521000000, Tue Sep 12 15:20:32 2017
----->current fitness: 70
iteration : 522000000, Tue Sep 12 15:20:35 2017
----->current fitness: 70
iteration : 523000000, Tue Sep 12 15:20:39 2017
----->current fitness: 70
iteration : 524000000, Tue Sep 12 15:20:43 2017
----->current fitness: 70
iteration : 525000000, Tue Sep 12 15:20:46 2017
----->current fitness: 70
iteration : 526000000, Tue Sep 12 15:20:50 2017
----->current fitness: 70
iteration : 527000000, Tue Sep 12 15:20:53 2017
----->current fitness: 70
iteration : 528000000, Tue Sep 12 15:20:57 2017
----->current fitness: 70
iteration : 529000000, Tue Sep 12 15:21:00 2017
----->current fitness: 70
iteration : 530000000, Tue Sep 12 15:21:04 2017
----->current fitness: 70
iteration : 531000000, Tue Sep 12 15:21:07 2017
----->current fitness: 70
iteration : 532000000, Tue Sep 12 15:21:11 2017
----->current fitness: 70
iteration : 533000000, Tue Sep 12 15:21:14 2017
----->current fitness: 70
iteration : 534000000, Tue Sep 12 15:21:18 2017
----->current fitness: 70
iteration : 535000000, Tue Sep 12 15:21:21 2017
----->current fitness: 70
iteration : 536000000, Tue Sep 12 15:21:25 2017
----->current fitness: 70
iteration : 537000000, Tue Sep 12 15:21:28 2017
----->current fitness: 70
iteration : 538000000, Tue Sep 12 15:21:32 2017
----->current fitness: 70
iteration : 539000000, Tue Sep 12 15:21:35 2017
----->current fitness: 70
iteration : 540000000, Tue Sep 12 15:21:39 2017
----->current fitness: 70

iteration : 541000000, Tue Sep 12 15:21:42 2017
----->current fitness: 70
iteration : 542000000, Tue Sep 12 15:21:46 2017
----->current fitness: 70
iteration : 543000000, Tue Sep 12 15:21:49 2017
----->current fitness: 70
iteration : 544000000, Tue Sep 12 15:21:53 2017
----->current fitness: 70
iteration : 545000000, Tue Sep 12 15:21:56 2017
----->current fitness: 70
iteration : 546000000, Tue Sep 12 15:22:00 2017
----->current fitness: 70