Testing average cycles for attraction strength 0  
Number of cycles run: 3539  
Number of cycles run: 935  
Number of cycles run: 1813  
Number of cycles run: 3364  
Number of cycles run: 993  
Number of cycles run: 1878  
Number of cycles run: 2123  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 2538  
Number of cycles run: 50000  
Number of cycles run: 2358  
Number of cycles run: 3804  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 9904  
Number of cycles run: 2707  
Number of cycles run: 50000  
Number of cycles run: 7771  
Number of cycles run: 2873  
Number of cycles run: 13236  
Number of cycles run: 1960  
Number of cycles run: 2677  
Number of cycles run: 50000  
Number of cycles run: 4256  
Number of cycles run: 7946  
Number of cycles run: 3082  
Number of cycles run: 2167  
Number of cycles run: 1825  
Number of cycles run: 8603  
Number of cycles run: 9321  
Number of cycles run: 14728  
Number of cycles run: 1042  
Number of cycles run: 2043  
Number of cycles run: 5216  
Number of cycles run: 1816  
Number of cycles run: 5568  
Number of cycles run: 2843  
Number of cycles run: 6586  
Number of cycles run: 3638  
Number of cycles run: 4036  
Number of cycles run: 42805  
Number of cycles run: 3123  
Number of cycles run: 1016  
Number of cycles run: 4300  
Number of cycles run: 25990  
Number of cycles run: 14888  
Number of cycles run: 1932  
Number of cycles run: 4008  
Number of cycles run: 28713  
Av cycles for attraction strength 0 is 12519  
standard diviation is 17091.81540618736  
Testing average cycles for attraction strength 0  
Number of cycles run: 2332  
Number of cycles run: 33848  
Number of cycles run: 1283  
Number of cycles run: 2676  
Number of cycles run: 1810  
Number of cycles run: 1868  
Number of cycles run: 6163  
Number of cycles run: 3520  
Number of cycles run: 2772  
Number of cycles run: 1117  
Number of cycles run: 50000  
Number of cycles run: 2081  
Number of cycles run: 2942  
Number of cycles run: 50000  
Number of cycles run: 4584  
Number of cycles run: 1005  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 2803  
Number of cycles run: 1976  
Number of cycles run: 2952  
Number of cycles run: 1710  
Number of cycles run: 7448  
Number of cycles run: 2535  
Number of cycles run: 2678  
Number of cycles run: 3700  
Number of cycles run: 2988  
Number of cycles run: 8166  
Number of cycles run: 3773  
Number of cycles run: 2587  
Number of cycles run: 3163  
Number of cycles run: 941  
Number of cycles run: 898  
Number of cycles run: 4113  
Number of cycles run: 2143  
Number of cycles run: 1704  
Number of cycles run: 6809  
Number of cycles run: 2070  
Number of cycles run: 2478  
Number of cycles run: 2537  
Number of cycles run: 41989  
Number of cycles run: 43209  
Number of cycles run: 50000  
Number of cycles run: 24720  
Number of cycles run: 2721  
Number of cycles run: 50000  
Number of cycles run: 18089  
Number of cycles run: 50000  
Number of cycles run: 2921  
Number of cycles run: 1169  
Av cycles for attraction strength 0 is 12459  
standard diviation is 18005.881313195918  
Testing average cycles for attraction strength 0  
Number of cycles run: 50000  
Number of cycles run: 1779  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 6500  
Number of cycles run: 11818  
Number of cycles run: 2922  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 6928  
Number of cycles run: 2800  
Number of cycles run: 3585  
Number of cycles run: 5584  
Number of cycles run: 9193  
Number of cycles run: 5364  
Number of cycles run: 6946  
Number of cycles run: 1302  
Number of cycles run: 2609  
Number of cycles run: 9884  
Number of cycles run: 7463  
Number of cycles run: 50000  
Number of cycles run: 31427  
Number of cycles run: 1606  
Number of cycles run: 50000  
Number of cycles run: 2049  
Number of cycles run: 922  
Number of cycles run: 1209  
Number of cycles run: 2362  
Number of cycles run: 2177  
Number of cycles run: 1911  
Number of cycles run: 3936  
Number of cycles run: 1969  
Number of cycles run: 6793  
Number of cycles run: 8097  
Number of cycles run: 1759  
Number of cycles run: 2750  
Number of cycles run: 2565  
Number of cycles run: 2079  
Number of cycles run: 32682  
Number of cycles run: 3697  
Number of cycles run: 1581  
Number of cycles run: 2098  
Number of cycles run: 6180  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 27707  
Number of cycles run: 8383  
Number of cycles run: 1903  
Av cycles for attraction strength 0 is 15850  
standard diviation is 19528.6192965136  
Testing average cycles for attraction strength 0  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 2447  
Number of cycles run: 1440  
Number of cycles run: 2072  
Number of cycles run: 1318  
Number of cycles run: 50000  
Number of cycles run: 1746  
Number of cycles run: 2097  
Number of cycles run: 50000  
Number of cycles run: 4283  
Number of cycles run: 2253  
Number of cycles run: 1487  
Number of cycles run: 2863  
Number of cycles run: 1273  
Number of cycles run: 6771  
Number of cycles run: 50000  
Number of cycles run: 1393  
Number of cycles run: 3278  
Number of cycles run: 3738  
Number of cycles run: 41559  
Number of cycles run: 6216  
Number of cycles run: 15014  
Number of cycles run: 28708  
Number of cycles run: 2624  
Number of cycles run: 6074  
Number of cycles run: 8480  
Number of cycles run: 5705  
Number of cycles run: 1893  
Number of cycles run: 3367  
Number of cycles run: 6711  
Number of cycles run: 3653  
Number of cycles run: 3263  
Number of cycles run: 3809  
Number of cycles run: 1667  
Number of cycles run: 3483  
Number of cycles run: 1918  
Number of cycles run: 4249  
Number of cycles run: 32525  
Number of cycles run: 2254  
Number of cycles run: 50000  
Number of cycles run: 38021  
Number of cycles run: 2485  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 1648  
Number of cycles run: 9383  
Number of cycles run: 50000  
Av cycles for attraction strength 0 is 16463  
standard diviation is 20092.419016867723  
Testing average cycles for attraction strength 0  
Number of cycles run: 17654  
Number of cycles run: 5551  
Number of cycles run: 3112  
Number of cycles run: 1438  
Number of cycles run: 1156  
Number of cycles run: 3541  
Number of cycles run: 9976  
Number of cycles run: 3696  
Number of cycles run: 2011  
Number of cycles run: 50000  
Number of cycles run: 1287  
Number of cycles run: 2671  
Number of cycles run: 26628  
Number of cycles run: 50000  
Number of cycles run: 8093  
Number of cycles run: 3389  
Number of cycles run: 2378  
Number of cycles run: 2378  
Number of cycles run: 3151  
Number of cycles run: 1462  
Number of cycles run: 1115  
Number of cycles run: 2408  
Number of cycles run: 1456  
Number of cycles run: 1482  
Number of cycles run: 3898  
Number of cycles run: 33593  
Number of cycles run: 50000  
Number of cycles run: 2128  
Number of cycles run: 50000  
Number of cycles run: 2612  
Number of cycles run: 4207  
Number of cycles run: 1579  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 1399  
Number of cycles run: 34788  
Number of cycles run: 33295  
Number of cycles run: 1521  
Number of cycles run: 1372  
Number of cycles run: 1430  
Number of cycles run: 5743  
Number of cycles run: 1844  
Number of cycles run: 50000  
Number of cycles run: 2820  
Number of cycles run: 2347  
Number of cycles run: 2249  
Number of cycles run: 6660  
Number of cycles run: 50000  
Number of cycles run: 13111  
Number of cycles run: 9051  
Av cycles for attraction strength 0 is 13433  
standard diviation is 18153.016838160278  
Testing average cycles for attraction strength 0  
Number of cycles run: 10206  
Number of cycles run: 2702  
Number of cycles run: 3361  
Number of cycles run: 32633  
Number of cycles run: 2121  
Number of cycles run: 50000  
Number of cycles run: 1682  
Number of cycles run: 9623  
Number of cycles run: 2134  
Number of cycles run: 2271  
Number of cycles run: 50000  
Number of cycles run: 6802  
Number of cycles run: 50000  
Number of cycles run: 3048  
Number of cycles run: 3789  
Number of cycles run: 50000  
Number of cycles run: 4981  
Number of cycles run: 2878  
Number of cycles run: 5066  
Number of cycles run: 50000  
Number of cycles run: 812  
Number of cycles run: 2685  
Number of cycles run: 2501  
Number of cycles run: 30297

Number of cycles run: 3813  
Number of cycles run: 12824  
Number of cycles run: 4262  
Number of cycles run: 1487  
Number of cycles run: 50000  
Number of cycles run: 2169  
Number of cycles run: 50000  
Number of cycles run: 4201  
Number of cycles run: 50000  
Number of cycles run: 18619  
Number of cycles run: 1585  
Number of cycles run: 2774  
Number of cycles run: 3369  
Number of cycles run: 2346  
Number of cycles run: 4039  
Number of cycles run: 6592  
Number of cycles run: 2866  
Number of cycles run: 3621  
Number of cycles run: 43384  
Number of cycles run: 2372  
Number of cycles run: 13337  
Number of cycles run: 13429  
Number of cycles run: 9516  
Number of cycles run: 2093  
Number of cycles run: 4445  
Number of cycles run: 50000  
Av cycles for attraction strength 0 is 14854  
standard diviation is 18550.625913033397  
Testing average cycles for attraction strength 0  
Number of cycles run: 2278  
Number of cycles run: 3302  
Number of cycles run: 2647  
Number of cycles run: 1568  
Number of cycles run: 16108  
Number of cycles run: 50000  
Number of cycles run: 1633  
Number of cycles run: 2232  
Number of cycles run: 14560  
Number of cycles run: 13523  
Number of cycles run: 50000  
Number of cycles run: 3590  
Number of cycles run: 2723  
Number of cycles run: 4168  
Number of cycles run: 3157  
Number of cycles run: 44012  
Number of cycles run: 22528  
Number of cycles run: 42143  
Number of cycles run: 2377  
Number of cycles run: 2022  
Number of cycles run: 1513  
Number of cycles run: 50000  
Number of cycles run: 1122  
Number of cycles run: 50000  
Number of cycles run: 4041  
Number of cycles run: 4681  
Number of cycles run: 2934  
Number of cycles run: 2621  
Number of cycles run: 50000  
Number of cycles run: 2260  
Number of cycles run: 20068  
Number of cycles run: 2928  
Number of cycles run: 10034  
Number of cycles run: 3161  
Number of cycles run: 1592  
Number of cycles run: 50000  
Number of cycles run: 2491  
Number of cycles run: 2462  
Number of cycles run: 1022  
Number of cycles run: 3697  
Number of cycles run: 2849  
Number of cycles run: 2845  
Number of cycles run: 43974  
Number of cycles run: 3489  
Number of cycles run: 4152  
Number of cycles run: 3293  
Number of cycles run: 1667  
Number of cycles run: 15739  
Number of cycles run: 3285  
Number of cycles run: 42284  
Av cycles for attraction strength 0 is 13495  
standard diviation is 17792.657527411557  
Testing average cycles for attraction strength 0  
Number of cycles run: 3124  
Number of cycles run: 2497  
Number of cycles run: 20972  
Number of cycles run: 3316  
Number of cycles run: 2710  
Number of cycles run: 50000  
Number of cycles run: 2145  
Number of cycles run: 2050  
Number of cycles run: 1752  
Number of cycles run: 1478  
Number of cycles run: 50000  
Number of cycles run: 6075  
Number of cycles run: 6449  
Number of cycles run: 904  
Number of cycles run: 3274  
Number of cycles run: 39635  
Number of cycles run: 9590  
Number of cycles run: 50000  
Number of cycles run: 3080  
Number of cycles run: 3287  
Number of cycles run: 7886  
Number of cycles run: 50000  
Number of cycles run: 1286  
Number of cycles run: 50000  
Number of cycles run: 1265  
Number of cycles run: 1230  
Number of cycles run: 1590  
Number of cycles run: 3475  
Number of cycles run: 2438  
Number of cycles run: 41196  
Number of cycles run: 2009  
Number of cycles run: 11050  
Number of cycles run: 2492  
Number of cycles run: 50000  
Number of cycles run: 9446  
Number of cycles run: 2155  
Number of cycles run: 50000  
Number of cycles run: 2495  
Number of cycles run: 1919  
Number of cycles run: 6305  
Number of cycles run: 2762  
Number of cycles run: 50000  
Number of cycles run: 3735  
Number of cycles run: 1435  
Number of cycles run: 36444  
Number of cycles run: 2554  
Number of cycles run: 2058  
Number of cycles run: 50000  
Number of cycles run: 2106  
Number of cycles run: 5784  
Av cycles for attraction strength 0 is 14349  
standard diviation is 19127.717684361956  
Testing average cycles for attraction strength 0  
Number of cycles run: 2164  
Number of cycles run: 7194  
Number of cycles run: 2490  
Number of cycles run: 2492  
Number of cycles run: 2863  
Number of cycles run: 50000  
Number of cycles run: 2169  
Number of cycles run: 2346  
Number of cycles run: 13066  
Number of cycles run: 5801  
Number of cycles run: 3077  
Number of cycles run: 2029  
Number of cycles run: 2347  
Number of cycles run: 1728  
Number of cycles run: 2276  
Number of cycles run: 4391  
Number of cycles run: 2595  
Number of cycles run: 2211  
Number of cycles run: 5553  
Number of cycles run: 5293  
Number of cycles run: 2520  
Number of cycles run: 2118  
Number of cycles run: 50000  
Number of cycles run: 1236  
Number of cycles run: 1299  
Number of cycles run: 50000  
Number of cycles run: 2978  
Number of cycles run: 1229  
Number of cycles run: 1610  
Number of cycles run: 2261  
Number of cycles run: 22232  
Number of cycles run: 2136  
Number of cycles run: 5431  
Number of cycles run: 7051  
Number of cycles run: 50000  
Number of cycles run: 4673  
Number of cycles run: 3644  
Number of cycles run: 17394  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 2165  
Number of cycles run: 1334  
Number of cycles run: 50000  
Number of cycles run: 1139  
Number of cycles run: 1515  
Number of cycles run: 2039  
Number of cycles run: 46554  
Number of cycles run: 2406  
Number of cycles run: 14378  
Number of cycles run: 1856  
Av cycles for attraction strength 0 is 11465  
standard diviation is 17309.22871176895  
Testing average cycles for attraction strength 0  
Number of cycles run: 940  
Number of cycles run: 50000  
Number of cycles run: 2634  
Number of cycles run: 1932  
Number of cycles run: 50000  
Number of cycles run: 1154  
Number of cycles run: 2144  
Number of cycles run: 5676  
Number of cycles run: 29222  
Number of cycles run: 50000  
Number of cycles run: 1843  
Number of cycles run: 4476  
Number of cycles run: 19293  
Number of cycles run: 3662  
Number of cycles run: 4086  
Number of cycles run: 1176  
Number of cycles run: 3769  
Number of cycles run: 1569  
Number of cycles run: 2984  
Number of cycles run: 5616  
Number of cycles run: 45986  
Number of cycles run: 2978  
Number of cycles run: 1939  
Number of cycles run: 1804  
Number of cycles run: 50000  
Number of cycles run: 1431  
Number of cycles run: 5938  
Number of cycles run: 3011  
Number of cycles run: 16167  
Number of cycles run: 1604  
Number of cycles run: 50000  
Number of cycles run: 2789  
Number of cycles run: 3885  
Number of cycles run: 1632  
Number of cycles run: 2548  
Number of cycles run: 50000  
Number of cycles run: 1285  
Number of cycles run: 952  
Number of cycles run: 21755  
Number of cycles run: 892  
Number of cycles run: 2077  
Number of cycles run: 2413  
Number of cycles run: 3855  
Number of cycles run: 2135  
Number of cycles run: 38237  
Number of cycles run: 2570  
Number of cycles run: 7393  
Number of cycles run: 3217  
Number of cycles run: 5007  
Number of cycles run: 50000  
Av cycles for attraction strength 0 is 12513  
standard diviation is 17840.760840186573