Testing average cycles for selfish strength 2.0  
Number of cycles run: 13360  
Number of cycles run: 7538  
Number of cycles run: 8221  
Number of cycles run: 6040  
Number of cycles run: 13926  
Number of cycles run: 13737  
Number of cycles run: 4359  
Number of cycles run: 9699  
Number of cycles run: 761  
Number of cycles run: 1230  
Number of cycles run: 8215  
Number of cycles run: 50000  
Number of cycles run: 14080  
Number of cycles run: 10118  
Number of cycles run: 50000  
Number of cycles run: 9853  
Number of cycles run: 28872  
Number of cycles run: 4289  
Number of cycles run: 23890  
Number of cycles run: 8191  
Number of cycles run: 14744  
Number of cycles run: 13293  
Number of cycles run: 6797  
Number of cycles run: 27106  
Number of cycles run: 50000  
Number of cycles run: 3965  
Number of cycles run: 9612  
Number of cycles run: 10228  
Number of cycles run: 481  
Number of cycles run: 491  
Number of cycles run: 11254  
Number of cycles run: 5916  
Number of cycles run: 17025  
Number of cycles run: 1422  
Number of cycles run: 28982  
Number of cycles run: 12632  
Number of cycles run: 10092  
Number of cycles run: 9155  
Number of cycles run: 13054  
Number of cycles run: 15777  
Number of cycles run: 8819  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 1990  
Number of cycles run: 7270  
Number of cycles run: 34439  
Number of cycles run: 8486  
Number of cycles run: 8740  
Number of cycles run: 7215  
Number of cycles run: 9719  
Av cycles for selfish strength 2.0 is 14701  
standard diviation is 13958.421195457453  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 19721  
Number of cycles run: 686  
Number of cycles run: 20546  
Number of cycles run: 50000  
Number of cycles run: 9137  
Number of cycles run: 50000  
Number of cycles run: 10509  
Number of cycles run: 50000  
Number of cycles run: 10091  
Number of cycles run: 9700  
Number of cycles run: 10107  
Number of cycles run: 4288  
Number of cycles run: 14468  
Number of cycles run: 50000  
Number of cycles run: 5704  
Number of cycles run: 9762  
Number of cycles run: 50000  
Number of cycles run: 21808  
Number of cycles run: 6623  
Number of cycles run: 21621  
Number of cycles run: 50000  
Number of cycles run: 7596  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 12451  
Number of cycles run: 9502  
Number of cycles run: 12521  
Number of cycles run: 2899  
Number of cycles run: 50000  
Number of cycles run: 25461  
Number of cycles run: 17763  
Number of cycles run: 6482  
Number of cycles run: 50000  
Number of cycles run: 8707  
Number of cycles run: 50000  
Number of cycles run: 46059  
Number of cycles run: 5167  
Number of cycles run: 36199  
Number of cycles run: 50000  
Number of cycles run: 4395  
Number of cycles run: 11073  
Number of cycles run: 6617  
Number of cycles run: 9878  
Number of cycles run: 21022  
Number of cycles run: 11182  
Number of cycles run: 7654  
Number of cycles run: 23589  
Number of cycles run: 887  
Av cycles for selfish strength 2.0 is 23237  
standard diviation is 18692.614890345747  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 2756  
Number of cycles run: 11255  
Number of cycles run: 19899  
Number of cycles run: 10508  
Number of cycles run: 50000  
Number of cycles run: 1128  
Number of cycles run: 4032  
Number of cycles run: 12300  
Number of cycles run: 790  
Number of cycles run: 12583  
Number of cycles run: 8672  
Number of cycles run: 5998  
Number of cycles run: 5241  
Number of cycles run: 8754  
Number of cycles run: 50000  
Number of cycles run: 13876  
Number of cycles run: 814  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 13330  
Number of cycles run: 4803  
Number of cycles run: 12237  
Number of cycles run: 607  
Number of cycles run: 1251  
Number of cycles run: 6534  
Number of cycles run: 11018  
Number of cycles run: 10518  
Number of cycles run: 7483  
Number of cycles run: 4755  
Number of cycles run: 14574  
Number of cycles run: 2175  
Number of cycles run: 17888  
Number of cycles run: 594  
Number of cycles run: 4708  
Number of cycles run: 4065  
Number of cycles run: 23012  
Number of cycles run: 22125  
Number of cycles run: 2622  
Number of cycles run: 4978  
Number of cycles run: 6361  
Number of cycles run: 12448  
Number of cycles run: 26934  
Number of cycles run: 7599  
Number of cycles run: 17915  
Number of cycles run: 7085  
Number of cycles run: 12891  
Number of cycles run: 19905  
Number of cycles run: 14325  
Number of cycles run: 4245  
Av cycles for selfish strength 2.0 is 13351  
standard diviation is 13873.597929072006  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 10088  
Number of cycles run: 12038  
Number of cycles run: 7217  
Number of cycles run: 50000  
Number of cycles run: 15368  
Number of cycles run: 17375  
Number of cycles run: 589  
Number of cycles run: 8814  
Number of cycles run: 11926  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 17293  
Number of cycles run: 6664  
Number of cycles run: 6293  
Number of cycles run: 19534  
Number of cycles run: 6603  
Number of cycles run: 7534  
Number of cycles run: 1833  
Number of cycles run: 4663  
Number of cycles run: 22700  
Number of cycles run: 8652  
Number of cycles run: 6001  
Number of cycles run: 6115  
Number of cycles run: 6063  
Number of cycles run: 6294  
Number of cycles run: 50000  
Number of cycles run: 13099  
Number of cycles run: 10188  
Number of cycles run: 3764  
Number of cycles run: 5010  
Number of cycles run: 50000  
Number of cycles run: 15297  
Number of cycles run: 6884  
Number of cycles run: 1118  
Number of cycles run: 11200  
Number of cycles run: 7729  
Number of cycles run: 50000  
Number of cycles run: 12978  
Number of cycles run: 7981  
Number of cycles run: 8852  
Number of cycles run: 7933  
Number of cycles run: 14236  
Number of cycles run: 4723  
Number of cycles run: 1705  
Number of cycles run: 6493  
Number of cycles run: 11092  
Number of cycles run: 15371  
Number of cycles run: 1228  
Number of cycles run: 14464  
Number of cycles run: 5282  
Av cycles for selfish strength 2.0 is 13925  
standard diviation is 14296.226468633216  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 517  
Number of cycles run: 3194  
Number of cycles run: 10284  
Number of cycles run: 8793  
Number of cycles run: 50000  
Number of cycles run: 11538  
Number of cycles run: 48876  
Number of cycles run: 10188  
Number of cycles run: 7448  
Number of cycles run: 9518  
Number of cycles run: 9905  
Number of cycles run: 2227  
Number of cycles run: 14006  
Number of cycles run: 5164  
Number of cycles run: 13896  
Number of cycles run: 4672  
Number of cycles run: 8869  
Number of cycles run: 5358  
Number of cycles run: 11819  
Number of cycles run: 3808  
Number of cycles run: 14292  
Number of cycles run: 27102  
Number of cycles run: 50000  
Number of cycles run: 1335  
Number of cycles run: 9822  
Number of cycles run: 50000  
Number of cycles run: 4627  
Number of cycles run: 7543  
Number of cycles run: 50000  
Number of cycles run: 7991  
Number of cycles run: 32359  
Number of cycles run: 12133  
Number of cycles run: 5398  
Number of cycles run: 4621  
Number of cycles run: 13990  
Number of cycles run: 5602  
Number of cycles run: 10186  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 20778  
Number of cycles run: 42754  
Number of cycles run: 2206  
Number of cycles run: 9642  
Number of cycles run: 621  
Number of cycles run: 16949  
Number of cycles run: 1688  
Number of cycles run: 7886  
Number of cycles run: 50000  
Number of cycles run: 16981  
Number of cycles run: 8776  
Av cycles for selfish strength 2.0 is 16507  
standard diviation is 16582.3379774496  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 4725  
Number of cycles run: 5018  
Number of cycles run: 5624  
Number of cycles run: 50000  
Number of cycles run: 8960  
Number of cycles run: 11099  
Number of cycles run: 8576  
Number of cycles run: 13391  
Number of cycles run: 22182  
Number of cycles run: 50000  
Number of cycles run: 8735  
Number of cycles run: 50000  
Number of cycles run: 10314  
Number of cycles run: 478  
Number of cycles run: 9117  
Number of cycles run: 12004  
Number of cycles run: 20681  
Number of cycles run: 13410  
Number of cycles run: 35102  
Number of cycles run: 12094  
Number of cycles run: 16815

Number of cycles run: 9270  
Number of cycles run: 10369  
Number of cycles run: 5809  
Number of cycles run: 4125  
Number of cycles run: 17049  
Number of cycles run: 4884  
Number of cycles run: 9763  
Number of cycles run: 5831  
Number of cycles run: 5837  
Number of cycles run: 13528  
Number of cycles run: 31737  
Number of cycles run: 9415  
Number of cycles run: 50000  
Number of cycles run: 15518  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 6085  
Number of cycles run: 50000  
Number of cycles run: 10520  
Number of cycles run: 7030  
Number of cycles run: 2940  
Number of cycles run: 6963  
Number of cycles run: 631  
Number of cycles run: 710  
Number of cycles run: 11875  
Number of cycles run: 3804  
Number of cycles run: 24808  
Number of cycles run: 16230  
Number of cycles run: 10053  
Av cycles for selfish strength 2.0 is 16262  
standard diviation is 15396.634352192108  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 10763  
Number of cycles run: 573  
Number of cycles run: 7449  
Number of cycles run: 587  
Number of cycles run: 2179  
Number of cycles run: 20470  
Number of cycles run: 50000  
Number of cycles run: 2298  
Number of cycles run: 3626  
Number of cycles run: 50000  
Number of cycles run: 4491  
Number of cycles run: 6006  
Number of cycles run: 50000  
Number of cycles run: 7013  
Number of cycles run: 10014  
Number of cycles run: 6904  
Number of cycles run: 7114  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 32858  
Number of cycles run: 10403  
Number of cycles run: 29557  
Number of cycles run: 605  
Number of cycles run: 8251  
Number of cycles run: 3461  
Number of cycles run: 50000  
Number of cycles run: 2184  
Number of cycles run: 492  
Number of cycles run: 7665  
Number of cycles run: 11515  
Number of cycles run: 36795  
Number of cycles run: 6451  
Number of cycles run: 14375  
Number of cycles run: 4203  
Number of cycles run: 50000  
Number of cycles run: 13087  
Number of cycles run: 1357  
Number of cycles run: 6918  
Number of cycles run: 6931  
Number of cycles run: 757  
Number of cycles run: 12676  
Number of cycles run: 5582  
Number of cycles run: 11096  
Number of cycles run: 50000  
Number of cycles run: 28602  
Number of cycles run: 1031  
Number of cycles run: 722  
Number of cycles run: 5195  
Number of cycles run: 8476  
Number of cycles run: 8140  
Av cycles for selfish strength 2.0 is 15377  
standard diviation is 17274.641821101442  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 2729  
Number of cycles run: 9154  
Number of cycles run: 50000  
Number of cycles run: 29065  
Number of cycles run: 1888  
Number of cycles run: 50000  
Number of cycles run: 2188  
Number of cycles run: 13287  
Number of cycles run: 17526  
Number of cycles run: 19987  
Number of cycles run: 9426  
Number of cycles run: 14299  
Number of cycles run: 6525  
Number of cycles run: 16270  
Number of cycles run: 6674  
Number of cycles run: 5881  
Number of cycles run: 15178  
Number of cycles run: 29341  
Number of cycles run: 36222  
Number of cycles run: 6369  
Number of cycles run: 14420  
Number of cycles run: 480  
Number of cycles run: 12197  
Number of cycles run: 5544  
Number of cycles run: 11961  
Number of cycles run: 18278  
Number of cycles run: 15678  
Number of cycles run: 1760  
Number of cycles run: 4918  
Number of cycles run: 13791  
Number of cycles run: 16334  
Number of cycles run: 11859  
Number of cycles run: 824  
Number of cycles run: 47420  
Number of cycles run: 50000  
Number of cycles run: 9625  
Number of cycles run: 9649  
Number of cycles run: 9385  
Number of cycles run: 50000  
Number of cycles run: 20484  
Number of cycles run: 4340  
Number of cycles run: 50000  
Number of cycles run: 13163  
Number of cycles run: 1751  
Number of cycles run: 50000  
Number of cycles run: 13576  
Number of cycles run: 15817  
Number of cycles run: 12286  
Number of cycles run: 10490  
Number of cycles run: 6322  
Av cycles for selfish strength 2.0 is 16887  
standard diviation is 15186.677795384227  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 13028  
Number of cycles run: 10619  
Number of cycles run: 4775  
Number of cycles run: 5014  
Number of cycles run: 6925  
Number of cycles run: 16566  
Number of cycles run: 4693  
Number of cycles run: 3018  
Number of cycles run: 12089  
Number of cycles run: 17082  
Number of cycles run: 7550  
Number of cycles run: 605  
Number of cycles run: 609  
Number of cycles run: 27778  
Number of cycles run: 7668  
Number of cycles run: 11257  
Number of cycles run: 15581  
Number of cycles run: 12256  
Number of cycles run: 14433  
Number of cycles run: 24336  
Number of cycles run: 567  
Number of cycles run: 641  
Number of cycles run: 3460  
Number of cycles run: 6188  
Number of cycles run: 50000  
Number of cycles run: 882  
Number of cycles run: 4690  
Number of cycles run: 8117  
Number of cycles run: 50000  
Number of cycles run: 9838  
Number of cycles run: 5512  
Number of cycles run: 734  
Number of cycles run: 43449  
Number of cycles run: 50000  
Number of cycles run: 16548  
Number of cycles run: 8591  
Number of cycles run: 14841  
Number of cycles run: 50000  
Number of cycles run: 17420  
Number of cycles run: 6439  
Number of cycles run: 3350  
Number of cycles run: 9913  
Number of cycles run: 459  
Number of cycles run: 7987  
Number of cycles run: 6351  
Number of cycles run: 1505  
Number of cycles run: 9938  
Number of cycles run: 9064  
Number of cycles run: 9581  
Number of cycles run: 12644  
Av cycles for selfish strength 2.0 is 12691  
standard diviation is 13547.236185770926  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 50000  
Number of cycles run: 8101  
Number of cycles run: 8349  
Number of cycles run: 14510  
Number of cycles run: 11964  
Number of cycles run: 50000  
Number of cycles run: 5960  
Number of cycles run: 50000  
Number of cycles run: 30738  
Number of cycles run: 15321  
Number of cycles run: 16352  
Number of cycles run: 7078  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 494  
Number of cycles run: 7305  
Number of cycles run: 8636  
Number of cycles run: 12106  
Number of cycles run: 50000  
Number of cycles run: 41840  
Number of cycles run: 50000  
Number of cycles run: 9432  
Number of cycles run: 6366  
Number of cycles run: 6733  
Number of cycles run: 9103  
Number of cycles run: 8744  
Number of cycles run: 9048  
Number of cycles run: 12420  
Number of cycles run: 50000  
Number of cycles run: 724  
Number of cycles run: 498  
Number of cycles run: 9072  
Number of cycles run: 22504  
Number of cycles run: 2354  
Number of cycles run: 3674  
Number of cycles run: 4355  
Number of cycles run: 3593  
Number of cycles run: 8752  
Number of cycles run: 11888  
Number of cycles run: 1361  
Number of cycles run: 15968  
Number of cycles run: 23009  
Number of cycles run: 8002  
Number of cycles run: 16945  
Number of cycles run: 44806  
Number of cycles run: 50000  
Number of cycles run: 1887  
Number of cycles run: 50000  
Number of cycles run: 1728  
Number of cycles run: 7258  
Av cycles for selfish strength 2.0 is 18779  
standard diviation is 18096.187553341566