Testing average cycles for selfish strength 0.5 =12037.5  
Number of cycles run: 7447  
Number of cycles run: 6423  
Number of cycles run: 7822  
Number of cycles run: 5168  
Number of cycles run: 6348  
Number of cycles run: 12922  
Number of cycles run: 8579  
Number of cycles run: 9134  
Number of cycles run: 5804  
Number of cycles run: 6708  
Number of cycles run: 6853  
Number of cycles run: 5680  
Number of cycles run: 5786  
Number of cycles run: 10355  
Number of cycles run: 16294  
Number of cycles run: 5956  
Number of cycles run: 6304  
Number of cycles run: 6350  
Number of cycles run: 48573  
Number of cycles run: 6826  
Number of cycles run: 6117  
Number of cycles run: 50000  
Number of cycles run: 5524  
Number of cycles run: 9171  
Number of cycles run: 7387  
Number of cycles run: 5376  
Number of cycles run: 10057  
Number of cycles run: 5620  
Number of cycles run: 6259  
Number of cycles run: 6414  
Number of cycles run: 5981  
Number of cycles run: 9727  
Number of cycles run: 7479  
Number of cycles run: 14311  
Number of cycles run: 6909  
Number of cycles run: 5022  
Number of cycles run: 8632  
Number of cycles run: 50000  
Number of cycles run: 29500  
Number of cycles run: 13585  
Number of cycles run: 50000  
Number of cycles run: 8065  
Number of cycles run: 6861  
Number of cycles run: 5711  
Number of cycles run: 5355  
Number of cycles run: 6068  
Number of cycles run: 8243  
Number of cycles run: 6461  
Number of cycles run: 6522  
Number of cycles run: 8914  
Av cycles for selfish strength 0.5 is 11412  
standard diviation is 12042.943713313653  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 27564  
Number of cycles run: 4689  
Number of cycles run: 7993  
Number of cycles run: 5559  
Number of cycles run: 5946  
Number of cycles run: 45703  
Number of cycles run: 32892  
Number of cycles run: 5937  
Number of cycles run: 8222  
Number of cycles run: 6763  
Number of cycles run: 8815  
Number of cycles run: 5854  
Number of cycles run: 25943  
Number of cycles run: 6151  
Number of cycles run: 6426  
Number of cycles run: 6088  
Number of cycles run: 5488  
Number of cycles run: 6124  
Number of cycles run: 9113  
Number of cycles run: 9147  
Number of cycles run: 10836  
Number of cycles run: 10060  
Number of cycles run: 5279  
Number of cycles run: 33344  
Number of cycles run: 7336  
Number of cycles run: 8732  
Number of cycles run: 7111  
Number of cycles run: 17477  
Number of cycles run: 5819  
Number of cycles run: 10081  
Number of cycles run: 13591  
Number of cycles run: 6532  
Number of cycles run: 6704  
Number of cycles run: 7692  
Number of cycles run: 7203  
Number of cycles run: 11991  
Number of cycles run: 10173  
Number of cycles run: 11217  
Number of cycles run: 5637  
Number of cycles run: 8074  
Number of cycles run: 9118  
Number of cycles run: 7162  
Number of cycles run: 7041  
Number of cycles run: 6343  
Number of cycles run: 7220  
Number of cycles run: 7071  
Number of cycles run: 6452  
Number of cycles run: 18928  
Number of cycles run: 7636  
Number of cycles run: 8064  
Av cycles for selfish strength 0.5 is 10606  
standard diviation is 8359.72690621713  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 7724  
Number of cycles run: 5245  
Number of cycles run: 10365  
Number of cycles run: 16957  
Number of cycles run: 15429  
Number of cycles run: 8083  
Number of cycles run: 5907  
Number of cycles run: 9269  
Number of cycles run: 18140  
Number of cycles run: 6903  
Number of cycles run: 8043  
Number of cycles run: 7534  
Number of cycles run: 7728  
Number of cycles run: 5882  
Number of cycles run: 6099  
Number of cycles run: 6764  
Number of cycles run: 6874  
Number of cycles run: 7086  
Number of cycles run: 8243  
Number of cycles run: 7101  
Number of cycles run: 6533  
Number of cycles run: 7347  
Number of cycles run: 9864  
Number of cycles run: 5691  
Number of cycles run: 8082  
Number of cycles run: 11852  
Number of cycles run: 50000  
Number of cycles run: 16299  
Number of cycles run: 50000  
Number of cycles run: 9487  
Number of cycles run: 39071  
Number of cycles run: 8998  
Number of cycles run: 6251  
Number of cycles run: 43573  
Number of cycles run: 6299  
Number of cycles run: 7246  
Number of cycles run: 7464  
Number of cycles run: 9080  
Number of cycles run: 17940  
Number of cycles run: 50000  
Number of cycles run: 12208  
Number of cycles run: 5938  
Number of cycles run: 10332  
Number of cycles run: 9320  
Number of cycles run: 7143  
Number of cycles run: 11041  
Number of cycles run: 7086  
Number of cycles run: 6868  
Number of cycles run: 6531  
Number of cycles run: 10379  
Av cycles for selfish strength 0.5 is 12665  
standard diviation is 11918.096541094856  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 6787  
Number of cycles run: 50000  
Number of cycles run: 7440  
Number of cycles run: 6396  
Number of cycles run: 5803  
Number of cycles run: 5993  
Number of cycles run: 7784  
Number of cycles run: 6001  
Number of cycles run: 7453  
Number of cycles run: 7149  
Number of cycles run: 7954  
Number of cycles run: 8339  
Number of cycles run: 25654  
Number of cycles run: 6889  
Number of cycles run: 9730  
Number of cycles run: 6167  
Number of cycles run: 10333  
Number of cycles run: 21419  
Number of cycles run: 6554  
Number of cycles run: 5624  
Number of cycles run: 7275  
Number of cycles run: 6431  
Number of cycles run: 5620  
Number of cycles run: 6226  
Number of cycles run: 6320  
Number of cycles run: 10925  
Number of cycles run: 5524  
Number of cycles run: 7863  
Number of cycles run: 9709  
Number of cycles run: 50000  
Number of cycles run: 7071  
Number of cycles run: 50000  
Number of cycles run: 9092  
Number of cycles run: 7534  
Number of cycles run: 7764  
Number of cycles run: 50000  
Number of cycles run: 6881  
Number of cycles run: 5767  
Number of cycles run: 5393  
Number of cycles run: 7823  
Number of cycles run: 7391  
Number of cycles run: 9078  
Number of cycles run: 8026  
Number of cycles run: 50000  
Number of cycles run: 6771  
Number of cycles run: 6032  
Number of cycles run: 5253  
Number of cycles run: 6569  
Number of cycles run: 5219  
Number of cycles run: 50000  
Av cycles for selfish strength 0.5 is 12940  
standard diviation is 14261.654565602526  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 7166  
Number of cycles run: 6295  
Number of cycles run: 6216  
Number of cycles run: 5594  
Number of cycles run: 9672  
Number of cycles run: 6041  
Number of cycles run: 7040  
Number of cycles run: 32898  
Number of cycles run: 6684  
Number of cycles run: 27896  
Number of cycles run: 6059  
Number of cycles run: 6633  
Number of cycles run: 5894  
Number of cycles run: 9326  
Number of cycles run: 7633  
Number of cycles run: 8444  
Number of cycles run: 6500  
Number of cycles run: 9953  
Number of cycles run: 11289  
Number of cycles run: 7363  
Number of cycles run: 6408  
Number of cycles run: 6331  
Number of cycles run: 6907  
Number of cycles run: 5177  
Number of cycles run: 25664  
Number of cycles run: 7767  
Number of cycles run: 6325  
Number of cycles run: 5194  
Number of cycles run: 50000  
Number of cycles run: 7859  
Number of cycles run: 5440  
Number of cycles run: 21124  
Number of cycles run: 6306  
Number of cycles run: 7218  
Number of cycles run: 7372  
Number of cycles run: 6946  
Number of cycles run: 9313  
Number of cycles run: 8304  
Number of cycles run: 6103  
Number of cycles run: 7315  
Number of cycles run: 24634  
Number of cycles run: 15044  
Number of cycles run: 8491  
Number of cycles run: 6720  
Number of cycles run: 8883  
Number of cycles run: 6320  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 12200  
Number of cycles run: 31265  
Av cycles for selfish strength 0.5 is 12424  
standard diviation is 11778.44782962093  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 5881  
Number of cycles run: 25357  
Number of cycles run: 8210  
Number of cycles run: 6650  
Number of cycles run: 5621  
Number of cycles run: 7687  
Number of cycles run: 6452  
Number of cycles run: 8413  
Number of cycles run: 6199  
Number of cycles run: 5791  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 7025  
Number of cycles run: 7565  
Number of cycles run: 50000  
Number of cycles run: 18493  
Number of cycles run: 8814  
Number of cycles run: 6473  
Number of cycles run: 17644  
Number of cycles run: 6270  
Number of cycles run: 34148  
Number of cycles run: 6025  
Number of cycles run: 6912  
Number of cycles run: 6439

Number of cycles run: 6425  
Number of cycles run: 10032  
Number of cycles run: 6213  
Number of cycles run: 7134  
Number of cycles run: 8243  
Number of cycles run: 7470  
Number of cycles run: 10430  
Number of cycles run: 6187  
Number of cycles run: 11475  
Number of cycles run: 9950  
Number of cycles run: 5908  
Number of cycles run: 8987  
Number of cycles run: 7610  
Number of cycles run: 50000  
Number of cycles run: 6991  
Number of cycles run: 5986  
Number of cycles run: 6984  
Number of cycles run: 8459  
Number of cycles run: 8474  
Number of cycles run: 10111  
Number of cycles run: 10201  
Number of cycles run: 6758  
Number of cycles run: 35197  
Number of cycles run: 12552  
Number of cycles run: 6670  
Number of cycles run: 9504  
Av cycles for selfish strength 0.5 is 12920  
standard diviation is 12692.845707849177  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 19183  
Number of cycles run: 6823  
Number of cycles run: 6837  
Number of cycles run: 6756  
Number of cycles run: 8894  
Number of cycles run: 50000  
Number of cycles run: 7028  
Number of cycles run: 7071  
Number of cycles run: 50000  
Number of cycles run: 5496  
Number of cycles run: 10585  
Number of cycles run: 5772  
Number of cycles run: 6207  
Number of cycles run: 38439  
Number of cycles run: 48168  
Number of cycles run: 15414  
Number of cycles run: 5963  
Number of cycles run: 9470  
Number of cycles run: 11503  
Number of cycles run: 5354  
Number of cycles run: 10142  
Number of cycles run: 11240  
Number of cycles run: 7340  
Number of cycles run: 12055  
Number of cycles run: 50000  
Number of cycles run: 27377  
Number of cycles run: 6042  
Number of cycles run: 6275  
Number of cycles run: 5162  
Number of cycles run: 9355  
Number of cycles run: 5880  
Number of cycles run: 5912  
Number of cycles run: 6489  
Number of cycles run: 8469  
Number of cycles run: 7007  
Number of cycles run: 8420  
Number of cycles run: 6760  
Number of cycles run: 50000  
Number of cycles run: 45445  
Number of cycles run: 12210  
Number of cycles run: 8179  
Number of cycles run: 11064  
Number of cycles run: 7822  
Number of cycles run: 8126  
Number of cycles run: 6587  
Number of cycles run: 7726  
Number of cycles run: 7100  
Number of cycles run: 8605  
Number of cycles run: 5583  
Number of cycles run: 7006  
Av cycles for selfish strength 0.5 is 14086  
standard diviation is 14181.58620368868  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 8202  
Number of cycles run: 8633  
Number of cycles run: 5795  
Number of cycles run: 6933  
Number of cycles run: 9924  
Number of cycles run: 6012  
Number of cycles run: 7450  
Number of cycles run: 5390  
Number of cycles run: 12032  
Number of cycles run: 8239  
Number of cycles run: 50000  
Number of cycles run: 27816  
Number of cycles run: 5196  
Number of cycles run: 5590  
Number of cycles run: 9653  
Number of cycles run: 9974  
Number of cycles run: 5684  
Number of cycles run: 15416  
Number of cycles run: 6419  
Number of cycles run: 6271  
Number of cycles run: 5387  
Number of cycles run: 5733  
Number of cycles run: 6089  
Number of cycles run: 5877  
Number of cycles run: 5414  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 8588  
Number of cycles run: 16889  
Number of cycles run: 6033  
Number of cycles run: 9718  
Number of cycles run: 7720  
Number of cycles run: 6894  
Number of cycles run: 19001  
Number of cycles run: 7141  
Number of cycles run: 16730  
Number of cycles run: 7218  
Number of cycles run: 7168  
Number of cycles run: 12134  
Number of cycles run: 13409  
Number of cycles run: 7085  
Number of cycles run: 5958  
Number of cycles run: 5998  
Number of cycles run: 9175  
Number of cycles run: 5493  
Number of cycles run: 6495  
Number of cycles run: 7043  
Number of cycles run: 15435  
Number of cycles run: 9480  
Number of cycles run: 7013  
Av cycles for selfish strength 0.5 is 11338  
standard diviation is 10775.204857960725  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 6588  
Number of cycles run: 6374  
Number of cycles run: 22314  
Number of cycles run: 8362  
Number of cycles run: 6430  
Number of cycles run: 13096  
Number of cycles run: 6936  
Number of cycles run: 7536  
Number of cycles run: 6594  
Number of cycles run: 18150  
Number of cycles run: 8820  
Number of cycles run: 8278  
Number of cycles run: 8822  
Number of cycles run: 8338  
Number of cycles run: 9062  
Number of cycles run: 6852  
Number of cycles run: 5967  
Number of cycles run: 7440  
Number of cycles run: 5373  
Number of cycles run: 27752  
Number of cycles run: 7032  
Number of cycles run: 9360  
Number of cycles run: 7787  
Number of cycles run: 14088  
Number of cycles run: 6804  
Number of cycles run: 6430  
Number of cycles run: 6421  
Number of cycles run: 5564  
Number of cycles run: 9023  
Number of cycles run: 5354  
Number of cycles run: 7737  
Number of cycles run: 18888  
Number of cycles run: 5429  
Number of cycles run: 6142  
Number of cycles run: 5926  
Number of cycles run: 6588  
Number of cycles run: 11626  
Number of cycles run: 6907  
Number of cycles run: 7637  
Number of cycles run: 6257  
Number of cycles run: 12564  
Number of cycles run: 50000  
Number of cycles run: 6654  
Number of cycles run: 5329  
Number of cycles run: 9627  
Number of cycles run: 19870  
Number of cycles run: 6671  
Number of cycles run: 7200  
Number of cycles run: 8156  
Number of cycles run: 6582  
Av cycles for selfish strength 0.5 is 9854  
standard diviation is 7467.517224784217  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 5120  
Number of cycles run: 8638  
Number of cycles run: 7715  
Number of cycles run: 7727  
Number of cycles run: 11575  
Number of cycles run: 10245  
Number of cycles run: 9114  
Number of cycles run: 11002  
Number of cycles run: 7459  
Number of cycles run: 11212  
Number of cycles run: 7230  
Number of cycles run: 11886  
Number of cycles run: 5075  
Number of cycles run: 6394  
Number of cycles run: 6611  
Number of cycles run: 50000  
Number of cycles run: 6032  
Number of cycles run: 6036  
Number of cycles run: 7080  
Number of cycles run: 6257  
Number of cycles run: 8797  
Number of cycles run: 50000  
Number of cycles run: 5811  
Number of cycles run: 9217  
Number of cycles run: 8951  
Number of cycles run: 50000  
Number of cycles run: 6900  
Number of cycles run: 7444  
Number of cycles run: 5796  
Number of cycles run: 5556  
Number of cycles run: 6856  
Number of cycles run: 6569  
Number of cycles run: 5814  
Number of cycles run: 6969  
Number of cycles run: 25710  
Number of cycles run: 11606  
Number of cycles run: 5389  
Number of cycles run: 31408  
Number of cycles run: 5186  
Number of cycles run: 28604  
Number of cycles run: 6114  
Number of cycles run: 5688  
Number of cycles run: 11886  
Number of cycles run: 6124  
Number of cycles run: 50000  
Number of cycles run: 5970  
Number of cycles run: 6237  
Number of cycles run: 6448  
Number of cycles run: 6242  
Number of cycles run: 6813  
Av cycles for selfish strength 0.5 is 12130  
standard diviation is 12515.968453091255