Testing average cycles for leadership strength 1.0  
the leader1 dead using 6279  
the leader1 dead using 6279  
Number of cycles run: 8295  
  
  
the leader1 dead using 3831  
the leader1 dead using 3831  
the leader1 dead using 3831  
Number of cycles run: 11361  
  
  
Number of cycles run: 7372  
  
  
Number of cycles run: 8508  
  
  
the leader1 dead using 6515  
the leader1 dead using 6515  
Number of cycles run: 9335  
  
  
the leader1 dead using 13482  
the leader1 dead using 13482  
Number of cycles run: 23972  
  
  
the leader1 dead using 3682  
Number of cycles run: 7934  
  
  
the leader1 dead using 1136  
Number of cycles run: 7358  
  
  
the leader1 dead using 6694  
Number of cycles run: 7635  
  
  
Number of cycles run: 15646  
  
  
the leader1 dead using 3861  
the leader1 dead using 3861  
the leader1 dead using 3861  
Number of cycles run: 7005  
  
  
Number of cycles run: 8286  
  
  
the leader1 dead using 422  
Number of cycles run: 7272  
  
  
the leader1 dead using 25932  
Number of cycles run: 26667  
  
  
Number of cycles run: 10104  
  
  
the leader1 dead using 6914  
the leader1 dead using 6914  
Number of cycles run: 9216  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2164  
Number of cycles run: 8944  
  
  
Number of cycles run: 6872  
  
  
the leader1 dead using 10263  
Number of cycles run: 14483  
  
  
Number of cycles run: 7821  
  
  
the leader1 dead using 355  
Number of cycles run: 8943  
  
  
Number of cycles run: 13277  
  
  
the leader1 dead using 3269  
the leader1 dead using 3269  
Number of cycles run: 8702  
  
  
Number of cycles run: 7708  
  
  
Number of cycles run: 7191  
  
  
the leader1 dead using 8161  
Number of cycles run: 10967  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 446  
the leader1 dead using 446  
Number of cycles run: 26364  
  
  
the leader1 dead using 9013  
Number of cycles run: 32769  
  
  
the leader1 dead using 9124  
Number of cycles run: 11909  
  
  
Number of cycles run: 7721  
  
  
the leader1 dead using 5060  
the leader1 dead using 5060  
the leader1 dead using 5060  
Number of cycles run: 7672  
  
  
Number of cycles run: 10534  
  
  
the leader1 dead using 9405  
Number of cycles run: 9405  
  
  
Number of cycles run: 10110  
  
  
Number of cycles run: 9749  
  
  
the leader1 dead using 2650  
the leader1 dead using 2650  
the leader1 dead using 2650  
Number of cycles run: 8089  
  
  
Number of cycles run: 9436  
  
  
the leader1 dead using 25140  
Number of cycles run: 25140  
  
  
the leader1 dead using 2767  
Number of cycles run: 8040  
  
  
Number of cycles run: 7493  
  
  
Number of cycles run: 7627  
  
  
the leader1 dead using 15049  
Number of cycles run: 15049  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4015  
Number of cycles run: 11279  
  
  
the leader1 dead using 11128  
Number of cycles run: 50000  
  
  
Number of cycles run: 13766  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 1.0 is 16060  
standard diviation is 13905.175662819853  
Testing average cycles for leadership strength 1.0  
Number of cycles run: 22614  
  
  
Number of cycles run: 12650  
  
  
the leader1 dead using 1049  
the leader1 dead using 1049  
the leader1 dead using 1049  
the leader1 dead using 1049  
Number of cycles run: 19898  
  
  
the leader1 dead using 2755  
the leader1 dead using 2755  
Number of cycles run: 6857  
  
  
Number of cycles run: 7996  
  
  
the leader1 dead using 8297  
Number of cycles run: 8297  
  
  
the leader1 dead using 4244  
the leader1 dead using 4244  
Number of cycles run: 8961  
  
  
the leader1 dead using 1091  
the leader1 dead using 1091  
the leader1 dead using 1091  
Number of cycles run: 16761  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3535  
Number of cycles run: 8188  
  
  
the leader1 dead using 4643  
the leader1 dead using 4643  
Number of cycles run: 8264  
  
  
the leader1 dead using 8621  
Number of cycles run: 10183  
  
  
the leader1 dead using 7991  
Number of cycles run: 8700  
  
  
Number of cycles run: 11029  
  
  
the leader1 dead using 5482  
the leader1 dead using 5482  
the leader1 dead using 5482  
the leader1 dead using 5482  
Number of cycles run: 20997  
  
  
Number of cycles run: 8223  
  
  
Number of cycles run: 8195  
  
  
Number of cycles run: 19294  
  
  
the leader1 dead using 24136  
Number of cycles run: 24429  
  
  
Number of cycles run: 8433  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 21800  
  
  
the leader1 dead using 733  
Number of cycles run: 9512  
  
  
the leader1 dead using 7217  
Number of cycles run: 8994  
  
  
the leader1 dead using 37578  
the leader1 dead using 37578  
the leader1 dead using 37578  
the leader1 dead using 37578  
the leader1 dead using 37578  
Number of cycles run: 41908  
  
  
Number of cycles run: 8881  
  
  
the leader1 dead using 2011  
Number of cycles run: 10239  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5673  
the leader1 dead using 5673  
Number of cycles run: 7579  
  
  
the leader1 dead using 6545  
Number of cycles run: 8167  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 676  
Number of cycles run: 9541  
  
  
the leader1 dead using 736  
the leader1 dead using 736  
the leader1 dead using 736  
the leader1 dead using 736  
the leader1 dead using 736  
the leader1 dead using 736  
Number of cycles run: 10350  
  
  
Number of cycles run: 7895  
  
  
the leader1 dead using 5216  
the leader1 dead using 5216  
Number of cycles run: 7898  
  
  
the leader1 dead using 5724  
the leader1 dead using 5724  
Number of cycles run: 9296  
  
  
the leader1 dead using 5358  
the leader1 dead using 5358  
Number of cycles run: 8977  
  
  
the leader1 dead using 1424  
Number of cycles run: 9919  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7956  
the leader1 dead using 7956  
Number of cycles run: 8485  
  
  
the leader1 dead using 23049  
Number of cycles run: 24396  
  
  
the leader1 dead using 7098  
Number of cycles run: 7098  
  
  
the leader1 dead using 2780  
the leader1 dead using 2780  
Number of cycles run: 8077  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 30205  
  
  
Number of cycles run: 8494  
  
  
the leader1 dead using 37894  
Number of cycles run: 38812  
  
  
the leader1 dead using 2698  
the leader1 dead using 2698  
the leader1 dead using 2698  
Number of cycles run: 12206  
  
  
the leader1 dead using 1841  
Number of cycles run: 50000  
  
  
the leader1 dead using 4851  
Number of cycles run: 6485  
  
  
Av cycles for leadership strength 1.0 is 18303  
standard diviation is 15100.34927101127  
Testing average cycles for leadership strength 1.0  
Number of cycles run: 7900  
  
  
the leader1 dead using 2852  
Number of cycles run: 43746  
  
  
the leader1 dead using 1938  
Number of cycles run: 50000  
  
  
the leader1 dead using 1265  
the leader1 dead using 1265  
Number of cycles run: 8450  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4833  
the leader1 dead using 4833  
the leader1 dead using 4833  
Number of cycles run: 16156  
  
  
Number of cycles run: 14546  
  
  
the leader1 dead using 16709  
Number of cycles run: 19367  
  
  
Number of cycles run: 7258  
  
  
the leader1 dead using 32647  
Number of cycles run: 32647  
  
  
Number of cycles run: 15573  
  
  
Number of cycles run: 32507  
  
  
the leader1 dead using 5852  
the leader1 dead using 5852  
the leader1 dead using 5852  
Number of cycles run: 8968  
  
  
Number of cycles run: 12492  
  
  
the leader1 dead using 439  
the leader1 dead using 439  
Number of cycles run: 8994  
  
  
the leader1 dead using 7172  
Number of cycles run: 7602  
  
  
Number of cycles run: 8519  
  
  
Number of cycles run: 9933  
  
  
the leader1 dead using 7182  
Number of cycles run: 7946  
  
  
the leader1 dead using 1229  
the leader1 dead using 1229  
the leader1 dead using 1229  
the leader1 dead using 1229  
Number of cycles run: 9007  
  
  
the leader1 dead using 4425  
the leader1 dead using 4425  
the leader1 dead using 4425  
Number of cycles run: 8186  
  
  
the leader1 dead using 6176  
Number of cycles run: 7126  
  
  
the leader1 dead using 18577  
the leader1 dead using 18577  
Number of cycles run: 18842  
  
  
Number of cycles run: 12910  
  
  
the leader1 dead using 5463  
Number of cycles run: 13692  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 412  
Number of cycles run: 50000  
  
  
the leader1 dead using 8099  
Number of cycles run: 8099  
  
  
the leader1 dead using 5904  
the leader1 dead using 5904  
Number of cycles run: 8548  
  
  
the leader1 dead using 3329  
Number of cycles run: 7179  
  
  
Number of cycles run: 36975  
  
  
the leader1 dead using 6560  
the leader1 dead using 6560  
the leader1 dead using 6560  
Number of cycles run: 13481  
  
  
the leader1 dead using 2754  
Number of cycles run: 8882

the leader1 dead using 39799  
the leader1 dead using 39799  
Number of cycles run: 43731  
  
  
Number of cycles run: 7848  
  
  
Number of cycles run: 29821  
  
  
the leader1 dead using 7589  
Number of cycles run: 9336  
  
  
Number of cycles run: 44650  
  
  
the leader1 dead using 6652  
Number of cycles run: 8684  
  
  
Number of cycles run: 10672  
  
  
the leader1 dead using 3556  
the leader1 dead using 3556  
Number of cycles run: 8850  
  
  
Number of cycles run: 23780  
  
  
Number of cycles run: 12967  
  
  
the leader1 dead using 4440  
the leader1 dead using 4440  
the leader1 dead using 4440  
Number of cycles run: 7714  
  
  
the leader1 dead using 6513  
the leader1 dead using 6513  
Number of cycles run: 7932  
  
  
Number of cycles run: 7804  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7094  
the leader1 dead using 7094  
Number of cycles run: 50000  
  
  
the leader1 dead using 729  
Number of cycles run: 38607  
  
  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 1.0 is 20558  
standard diviation is 16057.928791403825  
Testing average cycles for leadership strength 1.0  
Number of cycles run: 8477  
  
  
the leader1 dead using 4016  
the leader1 dead using 4016  
Number of cycles run: 7875  
  
  
Number of cycles run: 9501  
  
  
the leader1 dead using 4477  
the leader1 dead using 4477  
the leader1 dead using 4477  
the leader1 dead using 4477  
Number of cycles run: 12163  
  
  
Number of cycles run: 9900  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 11164  
Number of cycles run: 11726  
  
  
the leader1 dead using 4301  
the leader1 dead using 4301  
Number of cycles run: 7291  
  
  
the leader1 dead using 1482  
the leader1 dead using 1482  
the leader1 dead using 1482  
Number of cycles run: 7413  
  
  
Number of cycles run: 9630  
  
  
the leader1 dead using 2845  
the leader1 dead using 2845  
the leader1 dead using 2845  
the leader1 dead using 2845  
Number of cycles run: 9676  
  
  
Number of cycles run: 9660  
  
  
Number of cycles run: 8522  
  
  
Number of cycles run: 46977  
  
  
the leader1 dead using 2740  
the leader1 dead using 2740  
Number of cycles run: 8431  
  
  
the leader1 dead using 8903  
Number of cycles run: 8903  
  
  
the leader1 dead using 4908  
the leader1 dead using 4908  
the leader1 dead using 4908  
Number of cycles run: 8914  
  
  
Number of cycles run: 10498  
  
  
Number of cycles run: 8874  
  
  
the leader1 dead using 9325  
the leader1 dead using 9325  
Number of cycles run: 11094  
  
  
Number of cycles run: 11602  
  
  
the leader1 dead using 8879  
Number of cycles run: 23560  
  
  
the leader1 dead using 5347  
Number of cycles run: 7556  
  
  
Number of cycles run: 8381  
  
  
Number of cycles run: 7802  
  
  
the leader1 dead using 1049  
the leader1 dead using 1049  
Number of cycles run: 8430  
  
  
the leader1 dead using 3444  
the leader1 dead using 3444  
Number of cycles run: 8230  
  
  
the leader1 dead using 4432  
Number of cycles run: 8792  
  
  
Number of cycles run: 7812  
  
  
the leader1 dead using 8375  
Number of cycles run: 8375  
  
  
the leader1 dead using 7750  
Number of cycles run: 8403  
  
  
Number of cycles run: 8169  
  
  
the leader1 dead using 3527  
the leader1 dead using 3527  
Number of cycles run: 7840  
  
  
the leader1 dead using 6000  
the leader1 dead using 6000  
Number of cycles run: 9237  
  
  
the leader1 dead using 12915  
Number of cycles run: 13336  
  
  
the leader1 dead using 8792  
Number of cycles run: 9508  
  
  
the leader1 dead using 7380  
the leader1 dead using 7380  
the leader1 dead using 7380  
Number of cycles run: 11969  
  
  
the leader1 dead using 4305  
Number of cycles run: 14021  
  
  
the leader1 dead using 6152  
the leader1 dead using 6152  
Number of cycles run: 9092  
  
  
the leader1 dead using 3974  
Number of cycles run: 6447  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1175  
the leader1 dead using 1175  
the leader1 dead using 1175  
Number of cycles run: 8229  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 15391  
  
  
Number of cycles run: 19945  
  
  
Number of cycles run: 7235  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 17487  
  
  
the leader1 dead using 6085  
Number of cycles run: 9372  
  
  
the leader1 dead using 5293  
Number of cycles run: 7990  
  
  
Av cycles for leadership strength 1.0 is 13994  
standard diviation is 12353.545772145331  
Testing average cycles for leadership strength 1.0  
the leader1 dead using 487  
Number of cycles run: 14390  
  
  
the leader1 dead using 4048  
the leader1 dead using 4048  
Number of cycles run: 19551  
  
  
the leader1 dead using 2735  
Number of cycles run: 14224  
  
  
Number of cycles run: 8785  
  
  
the leader1 dead using 564  
the leader1 dead using 564  
Number of cycles run: 8002  
  
  
the leader1 dead using 413  
the leader1 dead using 413  
Number of cycles run: 39678  
  
  
Number of cycles run: 7893  
  
  
the leader1 dead using 400  
the leader1 dead using 400  
the leader1 dead using 400  
the leader1 dead using 400  
Number of cycles run: 8085  
  
  
Number of cycles run: 9388  
  
  
the leader1 dead using 385  
the leader1 dead using 385  
the leader1 dead using 385  
the leader1 dead using 385  
Number of cycles run: 22583  
  
  
the leader1 dead using 3014  
Number of cycles run: 9536  
  
  
Number of cycles run: 8581  
  
  
Number of cycles run: 13839  
  
  
the leader1 dead using 3088  
Number of cycles run: 8169  
  
  
the leader1 dead using 4901  
Number of cycles run: 7669  
  
  
the leader1 dead using 3361  
Number of cycles run: 9048  
  
  
Number of cycles run: 46874  
  
  
the leader1 dead using 8329  
Number of cycles run: 8895  
  
  
the leader1 dead using 20524  
Number of cycles run: 50000  
  
  
the leader1 dead using 3295  
the leader1 dead using 3295  
Number of cycles run: 7329  
  
  
the leader1 dead using 1935  
the leader1 dead using 1935  
Number of cycles run: 7435  
  
  
the leader1 dead using 1486  
the leader1 dead using 1486  
the leader1 dead using 1486  
Number of cycles run: 11872  
  
  
the leader1 dead using 817  
the leader1 dead using 817  
Number of cycles run: 9455  
  
  
the leader1 dead using 5208  
Number of cycles run: 50000  
  
  
the leader1 dead using 8081  
Number of cycles run: 8340  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 9282  
  
  
the leader1 dead using 2637  
the leader1 dead using 2637  
the leader1 dead using 2637  
Number of cycles run: 9207  
  
  
the leader1 dead using 972  
the leader1 dead using 972  
Number of cycles run: 50000  
  
  
the leader1 dead using 9370  
Number of cycles run: 11214  
  
  
the leader1 dead using 5508  
the leader1 dead using 5508  
Number of cycles run: 7477  
  
  
the leader1 dead using 1063  
the leader1 dead using 1063  
the leader1 dead using 1063  
Number of cycles run: 8410  
  
  
Number of cycles run: 15777  
  
  
the leader1 dead using 935  
the leader1 dead using 935  
the leader1 dead using 935  
the leader1 dead using 935  
Number of cycles run: 9079  
  
  
the leader1 dead using 5620  
the leader1 dead using 5620  
Number of cycles run: 14744  
  
  
the leader1 dead using 4967  
Number of cycles run: 8612  
  
  
the leader1 dead using 18979  
Number of cycles run: 18979  
  
  
Number of cycles run: 10782  
  
  
the leader1 dead using 1234  
the leader1 dead using 1234  
the leader1 dead using 1234  
Number of cycles run: 7553  
  
  
the leader1 dead using 4638  
the leader1 dead using 4638  
Number of cycles run: 9250  
  
  
the leader1 dead using 8727  
the leader1 dead using 8727  
Number of cycles run: 10695  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 22259  
  
  
the leader1 dead using 5121  
the leader1 dead using 5121  
Number of cycles run: 8240  
  
  
the leader1 dead using 1980  
Number of cycles run: 9133  
  
  
the leader1 dead using 450  
Number of cycles run: 8006  
  
  
the leader1 dead using 409  
the leader1 dead using 409  
the leader1 dead using 409  
Number of cycles run: 10846  
  
  
the leader1 dead using 5002  
the leader1 dead using 5002  
Number of cycles run: 7551  
  
  
the leader1 dead using 5706  
Number of cycles run: 7808  
  
  
the leader1 dead using 4930  
Number of cycles run: 11133  
  
  
Av cycles for leadership strength 1.0 is 15913  
standard diviation is 13680.25080382338  
Testing average cycles for leadership strength 1.0  
the leader1 dead using 10752  
the leader1 dead using 10752  
the leader1 dead using 10752  
Number of cycles run: 13254  
  
  
the leader1 dead using 3106  
Number of cycles run: 12424  
  
  
the leader1 dead using 9035  
Number of cycles run: 9035  
  
  
Number of cycles run: 12899  
  
  
the leader1 dead using 7441  
Number of cycles run: 7963  
  
  
the leader1 dead using 1334  
Number of cycles run: 17341  
  
  
the leader1 dead using 2856  
the leader1 dead using 2856

the leader1 dead using 2856  
Number of cycles run: 50000  
  
  
the leader1 dead using 7695  
the leader1 dead using 7695  
the leader1 dead using 7695  
the leader1 dead using 7695  
Number of cycles run: 8775  
  
  
Number of cycles run: 10307  
  
  
the leader1 dead using 2990  
the leader1 dead using 2990  
the leader1 dead using 2990  
the leader1 dead using 2990  
Number of cycles run: 7805  
  
  
the leader1 dead using 2860  
the leader1 dead using 2860  
the leader1 dead using 2860  
the leader1 dead using 2860  
the leader1 dead using 2860  
Number of cycles run: 23971  
  
  
the leader1 dead using 3397  
Number of cycles run: 8560  
  
  
the leader1 dead using 27187  
Number of cycles run: 27650  
  
  
the leader1 dead using 4123  
Number of cycles run: 7496  
  
  
Number of cycles run: 7020  
  
  
the leader1 dead using 1397  
the leader1 dead using 1397  
Number of cycles run: 7320  
  
  
Number of cycles run: 35049  
  
  
the leader1 dead using 8239  
the leader1 dead using 8239  
the leader1 dead using 8239  
the leader1 dead using 8239  
Number of cycles run: 23349  
  
  
the leader1 dead using 5404  
Number of cycles run: 7527  
  
  
the leader1 dead using 4429  
the leader1 dead using 4429  
Number of cycles run: 7629  
  
  
the leader1 dead using 5911  
Number of cycles run: 7770  
  
  
the leader1 dead using 4911  
Number of cycles run: 9063  
  
  
the leader1 dead using 4101  
the leader1 dead using 4101  
Number of cycles run: 7419  
  
  
the leader1 dead using 6286  
Number of cycles run: 12455  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5576  
the leader1 dead using 5576  
the leader1 dead using 5576  
Number of cycles run: 11519  
  
  
the leader1 dead using 2865  
Number of cycles run: 7656  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3912  
Number of cycles run: 8709  
  
  
the leader1 dead using 6924  
Number of cycles run: 8207  
  
  
the leader1 dead using 1234  
the leader1 dead using 1234  
Number of cycles run: 10185  
  
  
Number of cycles run: 9246  
  
  
Number of cycles run: 11323  
  
  
the leader1 dead using 2701  
the leader1 dead using 2701  
Number of cycles run: 7820  
  
  
the leader1 dead using 4714  
the leader1 dead using 4714  
Number of cycles run: 8465  
  
  
the leader1 dead using 3086  
Number of cycles run: 10843  
  
  
Number of cycles run: 8971  
  
  
the leader1 dead using 3489  
the leader1 dead using 3489  
the leader1 dead using 3489  
Number of cycles run: 9583  
  
  
Number of cycles run: 8284  
  
  
the leader1 dead using 8324  
Number of cycles run: 9468  
  
  
the leader1 dead using 2187  
the leader1 dead using 2187  
the leader1 dead using 2187  
Number of cycles run: 8176  
  
  
the leader1 dead using 6254  
Number of cycles run: 11108  
  
  
the leader1 dead using 4731  
the leader1 dead using 4731  
the leader1 dead using 4731  
the leader1 dead using 4731  
Number of cycles run: 8761  
  
  
the leader1 dead using 588  
the leader1 dead using 588  
the leader1 dead using 588  
Number of cycles run: 8033  
  
  
Number of cycles run: 7064  
  
  
the leader1 dead using 3030  
Number of cycles run: 15635  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 9101  
  
  
the leader1 dead using 2978  
the leader1 dead using 2978  
Number of cycles run: 50000  
  
  
the leader1 dead using 8461  
Number of cycles run: 8694  
  
  
Av cycles for leadership strength 1.0 is 14978  
standard diviation is 13013.426526068672  
Testing average cycles for leadership strength 1.0  
Number of cycles run: 10575  
  
  
the leader1 dead using 6327  
the leader1 dead using 6327  
Number of cycles run: 7975  
  
  
the leader1 dead using 7638  
Number of cycles run: 8752  
  
  
the leader1 dead using 7486  
Number of cycles run: 9400  
  
  
Number of cycles run: 10909  
  
  
the leader1 dead using 5716  
the leader1 dead using 5716  
Number of cycles run: 7817  
  
  
the leader1 dead using 11151  
Number of cycles run: 24193  
  
  
the leader1 dead using 6221  
Number of cycles run: 8285  
  
  
the leader1 dead using 1702  
the leader1 dead using 1702  
the leader1 dead using 1702  
Number of cycles run: 7577  
  
  
the leader1 dead using 8703  
Number of cycles run: 8703  
  
  
the leader1 dead using 8809  
Number of cycles run: 15005  
  
  
the leader1 dead using 5169  
the leader1 dead using 5169  
Number of cycles run: 7567  
  
  
the leader1 dead using 3332  
the leader1 dead using 3332  
Number of cycles run: 10961  
  
  
Number of cycles run: 8726  
  
  
Number of cycles run: 9502  
  
  
Number of cycles run: 34359  
  
  
the leader1 dead using 5737  
the leader1 dead using 5737  
Number of cycles run: 8762  
  
  
the leader1 dead using 10440  
Number of cycles run: 10440  
  
  
the leader1 dead using 5648  
the leader1 dead using 5648  
the leader1 dead using 5648  
Number of cycles run: 7639  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 8087  
  
  
the leader1 dead using 6548  
the leader1 dead using 6548  
Number of cycles run: 7859  
  
  
the leader1 dead using 1750  
the leader1 dead using 1750  
Number of cycles run: 8284  
  
  
the leader1 dead using 649  
the leader1 dead using 649  
the leader1 dead using 649  
Number of cycles run: 9939  
  
  
Number of cycles run: 9873  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3784  
Number of cycles run: 8063  
  
  
the leader1 dead using 7478  
the leader1 dead using 7478  
Number of cycles run: 8608  
  
  
Number of cycles run: 14196  
  
  
the leader1 dead using 5282  
the leader1 dead using 5282  
the leader1 dead using 5282  
Number of cycles run: 8046  
  
  
the leader1 dead using 3092  
the leader1 dead using 3092  
the leader1 dead using 3092  
Number of cycles run: 7180  
  
  
the leader1 dead using 8326  
the leader1 dead using 8326  
Number of cycles run: 10075  
  
  
Number of cycles run: 8207  
  
  
Number of cycles run: 8883  
  
  
Number of cycles run: 18988  
  
  
the leader1 dead using 626  
the leader1 dead using 626  
the leader1 dead using 626  
Number of cycles run: 9566  
  
  
the leader1 dead using 1940  
Number of cycles run: 50000  
  
  
the leader1 dead using 3495  
the leader1 dead using 3495  
Number of cycles run: 7407  
  
  
the leader1 dead using 2434  
the leader1 dead using 2434  
the leader1 dead using 2434  
Number of cycles run: 8884  
  
  
Number of cycles run: 12311  
  
  
the leader1 dead using 806  
the leader1 dead using 806  
Number of cycles run: 9846  
  
  
Number of cycles run: 9879  
  
  
the leader1 dead using 440  
the leader1 dead using 440  
the leader1 dead using 440  
Number of cycles run: 5726  
  
  
the leader1 dead using 9787  
Number of cycles run: 9787  
  
  
the leader1 dead using 4958  
the leader1 dead using 4958  
Number of cycles run: 8229  
  
  
the leader1 dead using 2626  
the leader1 dead using 2626  
Number of cycles run: 36850  
  
  
the leader1 dead using 13917  
Number of cycles run: 50000  
  
  
Number of cycles run: 49132  
  
  
Number of cycles run: 15411  
  
  
Number of cycles run: 7578  
  
  
Av cycles for leadership strength 1.0 is 14880  
standard diviation is 13187.095335027423  
Testing average cycles for leadership strength 1.0  
the leader1 dead using 6224  
the leader1 dead using 6224  
Number of cycles run: 9472  
  
  
Number of cycles run: 12010  
  
  
the leader1 dead using 2510  
Number of cycles run: 6085  
  
  
the leader1 dead using 447  
Number of cycles run: 8131  
  
  
Number of cycles run: 36944  
  
  
the leader1 dead using 3444  
Number of cycles run: 7806  
  
  
the leader1 dead using 6441  
Number of cycles run: 10151  
  
  
Number of cycles run: 16594  
  
  
the leader1 dead using 5586  
the leader1 dead using 5586  
Number of cycles run: 8198  
  
  
Number of cycles run: 11976  
  
  
Number of cycles run: 8774  
  
  
the leader1 dead using 443  
the leader1 dead using 443  
Number of cycles run: 26017  
  
  
Number of cycles run: 9121  
  
  
the leader1 dead using 8316  
Number of cycles run: 8545  
  
  
the leader1 dead using 426  
Number of cycles run: 8439  
  
  
the leader1 dead using 7310  
Number of cycles run: 8121  
  
  
the leader1 dead using 3082  
the leader1 dead using 3082  
the leader1 dead using 3082  
Number of cycles run: 8685  
  
  
Number of cycles run: 8042  
  
  
the leader1 dead using 487  
the leader1 dead using 487  
the leader1 dead using 487  
Number of cycles run: 7154  
  
  
Number of cycles run: 16438  
  
  
the leader1 dead using 6353  
the leader1 dead using 6353  
Number of cycles run: 8105  
  
  
the leader1 dead using 2484  
the leader1 dead using 2484  
the leader1 dead using 2484  
Number of cycles run: 8212  
  
  
the leader1 dead using 993  
the leader1 dead using 993  
the leader1 dead using 993  
the leader1 dead using 993  
Number of cycles run: 6680  
  
  
the leader1 dead using 2095  
the leader1 dead using 2095  
Number of cycles run: 6913  
  
  
Number of cycles run: 16354

the leader1 dead using 13174  
Number of cycles run: 13659  
  
  
Number of cycles run: 9721  
  
  
the leader1 dead using 7023  
Number of cycles run: 7279  
  
  
the leader1 dead using 5831  
Number of cycles run: 7850  
  
  
the leader1 dead using 3318  
Number of cycles run: 7141  
  
  
the leader1 dead using 1270  
the leader1 dead using 1270  
Number of cycles run: 7865  
  
  
the leader1 dead using 13674  
the leader1 dead using 13674  
Number of cycles run: 17058  
  
  
Number of cycles run: 8266  
  
  
the leader1 dead using 4886  
Number of cycles run: 7651  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 12808  
Number of cycles run: 12808  
  
  
Number of cycles run: 8618  
  
  
the leader1 dead using 8858  
Number of cycles run: 8858  
  
  
the leader1 dead using 490  
the leader1 dead using 490  
the leader1 dead using 490  
Number of cycles run: 50000  
  
  
Number of cycles run: 8706  
  
  
the leader1 dead using 3290  
Number of cycles run: 7399  
  
  
the leader1 dead using 514  
Number of cycles run: 19081  
  
  
Number of cycles run: 7993  
  
  
the leader1 dead using 4576  
Number of cycles run: 7556  
  
  
the leader1 dead using 7971  
Number of cycles run: 8232  
  
  
Number of cycles run: 7482  
  
  
the leader1 dead using 19290  
the leader1 dead using 19290  
Number of cycles run: 19553  
  
  
the leader1 dead using 6509  
the leader1 dead using 6509  
the leader1 dead using 6509  
Number of cycles run: 9461  
  
  
the leader1 dead using 2851  
the leader1 dead using 2851  
the leader1 dead using 2851  
Number of cycles run: 7464  
  
  
the leader1 dead using 6955  
the leader1 dead using 6955  
Number of cycles run: 9129  
  
  
Av cycles for leadership strength 1.0 is 12235  
standard diviation is 9541.658939768133  
Testing average cycles for leadership strength 1.0  
the leader1 dead using 13762  
Number of cycles run: 50000  
  
  
the leader1 dead using 892  
Number of cycles run: 8169  
  
  
Number of cycles run: 25189  
  
  
the leader1 dead using 4954  
the leader1 dead using 4954  
Number of cycles run: 7255  
  
  
the leader1 dead using 7060  
Number of cycles run: 8154  
  
  
Number of cycles run: 8119  
  
  
the leader1 dead using 6017  
Number of cycles run: 9067  
  
  
the leader1 dead using 2733  
Number of cycles run: 9777  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 9099  
Number of cycles run: 9376  
  
  
the leader1 dead using 6026  
the leader1 dead using 6026  
Number of cycles run: 6723  
  
  
Number of cycles run: 28733  
  
  
the leader1 dead using 2622  
the leader1 dead using 2622  
the leader1 dead using 2622  
Number of cycles run: 7481  
  
  
Number of cycles run: 17570  
  
  
the leader1 dead using 2525  
Number of cycles run: 10018  
  
  
the leader1 dead using 8504  
Number of cycles run: 8990  
  
  
Number of cycles run: 8865  
  
  
the leader1 dead using 1560  
the leader1 dead using 1560  
the leader1 dead using 1560  
Number of cycles run: 8225  
  
  
Number of cycles run: 7863  
  
  
the leader1 dead using 2802  
Number of cycles run: 7960  
  
  
the leader1 dead using 7538  
Number of cycles run: 8118  
  
  
the leader1 dead using 8249  
Number of cycles run: 10131  
  
  
Number of cycles run: 8971  
  
  
the leader1 dead using 6441  
the leader1 dead using 6441  
Number of cycles run: 8011  
  
  
the leader1 dead using 5556  
the leader1 dead using 5556  
the leader1 dead using 5556  
Number of cycles run: 9055  
  
  
the leader1 dead using 5519  
the leader1 dead using 5519  
the leader1 dead using 5519  
Number of cycles run: 9696  
  
  
Number of cycles run: 9236  
  
  
Number of cycles run: 7698  
  
  
the leader1 dead using 2806  
the leader1 dead using 2806  
Number of cycles run: 12710  
  
  
the leader1 dead using 6761  
the leader1 dead using 6761  
Number of cycles run: 50000  
  
  
the leader1 dead using 4980  
Number of cycles run: 6900  
  
  
the leader1 dead using 3761  
the leader1 dead using 3761  
the leader1 dead using 3761  
Number of cycles run: 6121  
  
  
the leader1 dead using 425  
the leader1 dead using 425  
Number of cycles run: 9535  
  
  
the leader1 dead using 8048  
the leader1 dead using 8048  
Number of cycles run: 8943  
  
  
the leader1 dead using 3857  
the leader1 dead using 3857  
Number of cycles run: 8185  
  
  
the leader1 dead using 2884  
Number of cycles run: 7645  
  
  
Number of cycles run: 24885  
  
  
Number of cycles run: 8570  
  
  
Number of cycles run: 12521  
  
  
the leader1 dead using 797  
Number of cycles run: 8135  
  
  
the leader1 dead using 2841  
the leader1 dead using 2841  
the leader1 dead using 2841  
Number of cycles run: 8071  
  
  
the leader1 dead using 678  
Number of cycles run: 19804  
  
  
the leader1 dead using 2042  
Number of cycles run: 10145  
  
  
the leader1 dead using 3577  
Number of cycles run: 7675  
  
  
the leader1 dead using 8875  
Number of cycles run: 9515  
  
  
Number of cycles run: 25312  
  
  
the leader1 dead using 6372  
the leader1 dead using 6372  
Number of cycles run: 9800  
  
  
the leader1 dead using 4874  
the leader1 dead using 4874  
Number of cycles run: 7165  
  
  
the leader1 dead using 4206  
the leader1 dead using 4206  
Number of cycles run: 11399  
  
  
the leader1 dead using 9641  
Number of cycles run: 11696  
  
  
Av cycles for leadership strength 1.0 is 13063  
standard diviation is 10751.349568366963  
Testing average cycles for leadership strength 1.0  
the leader1 dead using 4676  
Number of cycles run: 7999  
  
  
the leader1 dead using 759  
Number of cycles run: 12069  
  
  
the leader1 dead using 526  
Number of cycles run: 10300  
  
  
the leader1 dead using 600  
the leader1 dead using 600  
Number of cycles run: 12406  
  
  
Number of cycles run: 21521  
  
  
the leader1 dead using 7493  
Number of cycles run: 7776  
  
  
the leader1 dead using 31998  
Number of cycles run: 50000  
  
  
the leader1 dead using 5436  
the leader1 dead using 5436  
Number of cycles run: 8968  
  
  
Number of cycles run: 9789  
  
  
Number of cycles run: 7609  
  
  
the leader1 dead using 1195  
Number of cycles run: 9192  
  
  
the leader1 dead using 7342  
Number of cycles run: 9341  
  
  
the leader1 dead using 900  
Number of cycles run: 8665  
  
  
Number of cycles run: 7956  
  
  
Number of cycles run: 19737  
  
  
the leader1 dead using 933  
the leader1 dead using 933  
the leader1 dead using 933  
Number of cycles run: 9620  
  
  
Number of cycles run: 8279  
  
  
the leader1 dead using 4013  
the leader1 dead using 4013  
Number of cycles run: 8176  
  
  
the leader1 dead using 456  
the leader1 dead using 456  
the leader1 dead using 456  
Number of cycles run: 39679  
  
  
Number of cycles run: 9887  
  
  
the leader1 dead using 1492  
Number of cycles run: 12735  
  
  
the leader1 dead using 38226  
Number of cycles run: 39014  
  
  
the leader1 dead using 7947  
Number of cycles run: 7947  
  
  
Number of cycles run: 9275  
  
  
Number of cycles run: 15790  
  
  
the leader1 dead using 7008  
Number of cycles run: 22545  
  
  
Number of cycles run: 8353  
  
  
the leader1 dead using 11499  
Number of cycles run: 12084  
  
  
Number of cycles run: 9298  
  
  
the leader1 dead using 3898  
the leader1 dead using 3898  
Number of cycles run: 9684  
  
  
the leader1 dead using 2836  
the leader1 dead using 2836  
the leader1 dead using 2836  
Number of cycles run: 12029  
  
  
Number of cycles run: 19983  
  
  
Number of cycles run: 10786  
  
  
the leader1 dead using 4355  
Number of cycles run: 8952  
  
  
the leader1 dead using 949  
Number of cycles run: 10400  
  
  
the leader1 dead using 3458  
the leader1 dead using 3458  
the leader1 dead using 3458  
Number of cycles run: 7361  
  
  
the leader1 dead using 6793  
Number of cycles run: 19801  
  
  
the leader1 dead using 12504  
the leader1 dead using 12504  
Number of cycles run: 18022  
  
  
the leader1 dead using 4714  
Number of cycles run: 7706  
  
  
Number of cycles run: 10475  
  
  
the leader1 dead using 6540  
the leader1 dead using 6540  
Number of cycles run: 8115  
  
  
Number of cycles run: 23156  
  
  
Number of cycles run: 9051  
  
  
Number of cycles run: 8337  
  
  
the leader1 dead using 7509  
the leader1 dead using 7509  
Number of cycles run: 10681  
  
  
Number of cycles run: 36675  
  
  
Number of cycles run: 7476  
  
  
Number of cycles run: 10149  
  
  
the leader1 dead using 2848  
the leader1 dead using 2848  
the leader1 dead using 2848  
the leader1 dead using 2848  
Number of cycles run: 17884  
  
  
Number of cycles run: 16147  
  
  
Av cycles for leadership strength 1.0 is 13977  
standard diviation is 9353.058013509893