

Activity # 3

(a)

Input

5

10

50

100

200

Average Distance

6.122901816

6.40452842

6.89094860

6.915421370

6.080688122

(b)

As we can see above by increasing the number of step does effect the distance covered but we can not predict that it should be increasing or decreasing because their relationship is random,

RandomWalkAvg()

(c)

Random Walks Avg Many Times()

(d)

As number of simulation increases, we can see in graph, the points are more stick to the curve and not dispers or diverge from the actual position.