**Project 3 Part 3 (full recursive approach O(nlogn))**

Name: Forrest Meng

Did you created a class to store a point? yes

Did you use a vector to store the points you generated? yes

Did you sort using the sort method offered by C++? yes

Did you use at least one iterator to traverse the vector you created? yes

Paste here a clear picture of the graph that compares the running times of the “brute force” algorithm and “full recursive” algorithm versus number of points. (use 2 different colors for the 2 graphs):

10k:

part2() milliseconds: 227.039500000000003865352

Point1: 0.500000000000000999200722 0.499999999999999222843883

Point2: 0.500000000000000999200722 0.499999999999999278355034

Distance: 5.55111512312578270211816e-17

part3() total milliseconds: 191.64349999999998885869

Point1: 0.500000000000000999200722 0.499999999999999222843883

Point2: 0.500000000000000999200722 0.499999999999999278355034

Distance: 5.55111512312578270211816e-17