Project 3 Part 4 (randomized approach O(n))

Name: Forrest Meng   Period: 2

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

Did you use an unordered_map for your dictionary?   Yes

Did you implement the Knuth algorithm to randomize the points?   Yes

Paste here a clear picture of the graph that compares the running times of the "full recursive" algorithm and "randomized" algorithm versus number of points. (use 2 different colors for the 2 graphs, colors that can be visible even if you print in black and white). Each point on this graph should be an average of several runs for that size: