**Project 3 Part 2 (intermediary recursive approach)**

Name: Satvik Matta Period: 5

Date: 10/31/2022

Is your lab name l032?(lowercase L followed by digits 032) Yes

Did you created a class to store a point? Yes

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

Did you use at least one iterator to traverse the vector you created (is optional)? No

Does your main contain only 3 calls of: part0(), part1() and part2() + writing to the results.txt?

Yes

Paste here a clear **picture** of the content of the results.txt file in 2 random runs:

Run 1:

Text

Description automatically generated

Run 2:

Text

Description automatically generated

Paste here a clear picture of the graph that compares the running times of the two algorithms versus number of points. (use 2 different colors for the 2 graphs):

Hint: in order to create the 2 graphs maybe add in part1 a question that asks how many points to generate, not just if yes or no.

Graph:

**Times were recorded on a 10-Core M1 Pro MacBook Pro**

Chart, line chart

Description automatically generated

**Times were recorded on a 10-Core M1 Pro MacBook Pro**

Chart, line chart

Description automatically generated