COT 4521-001: Introduction to Computational Geometry (Fall 2018)

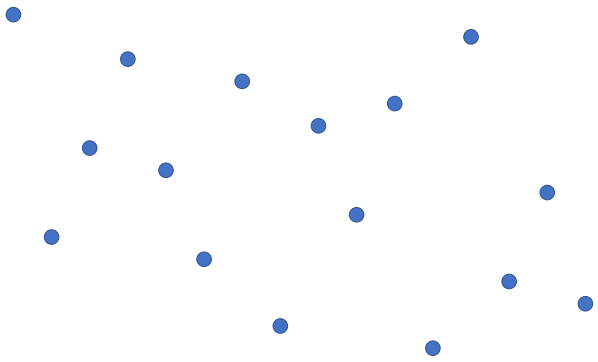
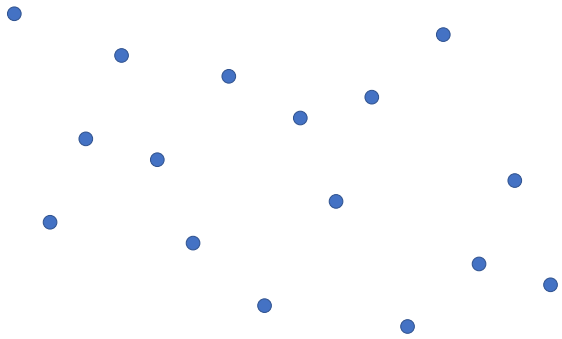
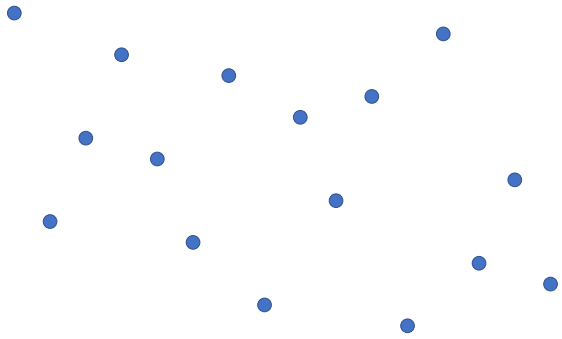
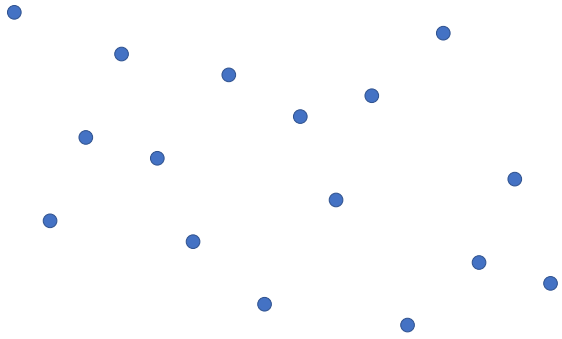
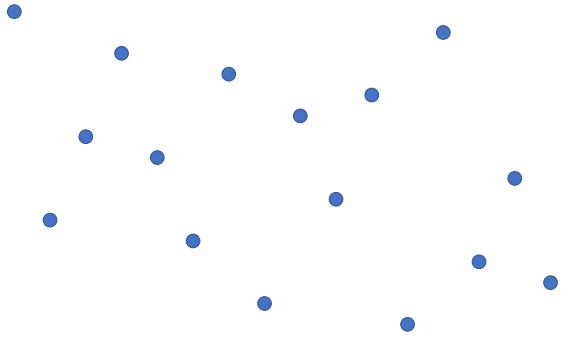
Worksheet 6

1 Ground Rules

This assignment is OPTIONAL and UNGRADED.

2 Assignment

- For the following point set, find perform spatial subdivision using a: grid; quadtree; and kd-tree. Show the algorithm using the following pages. Be sure to show all of the steps and the order of steps for the algorithm (show both the division and resulting tree).



- For each algorithm, determine some example point sets which produce best and worst case spatial subdivision and query time.