COT 4521: Intro. to Computational Geometry (Fall 2020)

Worksheet 9

Ground Rules

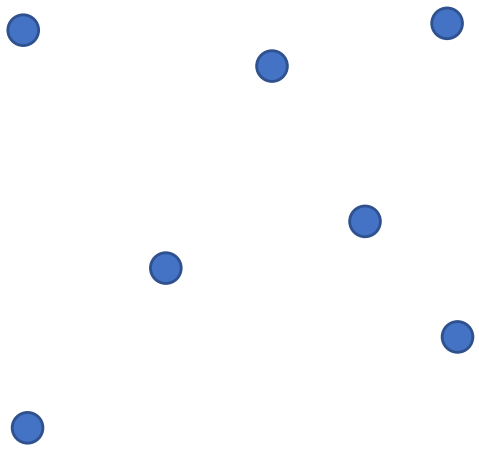
This assignment is intended to be solved within your group. However, you must submit your own answers. For all questions we expect you to show yours work!

Submission

Upload your answers and associated work to canvas as a single scanned, typed, or photographed PDF document. Be sure that your submission is legible.

Assignment Instructions

- For the following point set, find the convex hull using:
  1. The QuickHull algorithm.
  2. The Graham's algorithm.



- Use the following page to show the steps of the algorithm. Print off as many copies as you need, though you may not need all copies of the point set.
- Use each steps to determine the best/average/worst case big-O performance for a single iteration.
- Combine that information to determine the best/average/worst case big-O for the entire computation.