

Analysis of Algorithms

CS 375, Fall 2018

Homework 6

Due **AT THE BEGINNING OF CLASS** Wednesday, October 3

- **Reading Assignment:** From your textbook (Levitin), please finish reading Ch. 3
- *A general note:* When writing up your homework, please write neatly and explain your answers clearly, giving all details needed to make your answers easy to understand. Graders may not award credit to incomplete or illegible solutions. Clear communication *is* the point, on every assignment.

Exercises

1. Exercise 3.2.6.
2. Exercise 3.3.8.
3. Exercise 3.3.9. Note that this exercise asks for an algorithm to find two points on the convex hull—the convex hull might contain many more than two points, but this asks you to find two of them. Please be sure your answer includes an English description of your algorithm and a short correctness argument (2–3 sentences could suffice, if the necessary ideas are there), explaining how you know your algorithm works correctly.