

CS 312: Algorithms

Homework 2

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Instructions

Complete all problems and submit by the beginning of class on Thursday, Feb 7. You may work together with other students, but *your written work must be your own*. I highly encourage you to attempt the problems first on your own, especially the simpler ones.

Please make sure to:

- Write your name on your submission
- Write the name of all students with whom you collaborated
- Cite any sources you used other than the textbook or course notes.

Problems

1. (10 points) Chapter 2, Exercise 4. Note that we already did two of these particular comparisons in class.
2. (10 points) Chapter 2, Exercise 5, parts (b) and (c). You may do part (a) for 2 points extra credit; there is a corner case that is tricky but not that interesting, so I am not assigning it for credit.
3. (10 points) Chapter 2, Exercise 6.
4. (10 points*) Chapter 2, Exercise 8. For this exercise, you will be graded *as a class*. Please work together to submit a single solution on Piazza—you do not need to submit your own written solution. All students will receive the same grade.
5. How much time did you spend on this homework?