

Analysis of Algorithms

CS 375, Fall 2018

Homework 16

Due **AT THE BEGINNING OF CLASS** Monday, November 19

- **Reading Assignment:** From your textbook (Levitin), please read Chapter 8 (you can skip Section 8.3) and Chapter 9 up to Section 9.2. Also, please read Chapter 15.4 in CLRS. (You may want to read Chapter 15.1 and 15.3 in CLRS, too.)
- Please note that any exercise from CLRS (rather than from Levitin) will be explicitly marked below as “CLRS Exercise,” and I will give a page number on which the exercise can be found in the CLRS 3rd edition (electronically available through Colby’s library). Exercise numbers not marked as being from CLRS are from Levitin, as usual.
- *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. CLRS Exercise 15.4-1 (pg. 396).
2. CLRS Exercise 15.4-5, (pg. 397).
3. Exercise 8.1.7, part a. Please be sure to include an explanation of the correctness of your solution (a well-worded paragraph could suffice).
4. Exercise 8.1.8. Please be sure to include an explanation of the correctness of your algorithm (a well-worded paragraph could suffice).