

Analysis of Algorithms

CS 375, Fall 2018

Homework 4

Due **AT THE BEGINNING OF CLASS** Wednesday, September 26

- **Reading Assignment:** From your textbook (Levitin), please finish reading Ch. 2 and read Ch. 3.1–3.2.
- *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 2.4.3, part a. The Master Theorem (Ch. 5.1) is not permitted for use in solving this recurrence.
2. Exercise 2.5.2. As always, please explain your answer; here, a short explanation (3–4 sentences or so) could suffice, as long as it contains the ideas underlying the solution.
3. Exercise 2.5.3. Again, be sure to include a short explanation (a few sentences) of your answer.