

# Review for Exam 1

## Reading Material

- **Chapter 1:** Section 1.1 and 1.2.
- **Chapter 2:** Section 2.1, 2.2 and 2.3.
- **Chapter 3:** Section 3.1 and 3.2.
- **Appendix A.** Summations: You should know arithmetic and geometric series.
- **Chapter 4:** Section 4.1, 4.2 and 4.3.
- **Chapter 6:** Section 6.1–5.
- **Chapter 7:** Review only
- **Chapter 8:** Section 8.2, 8.3, and 8.4.1.
- **Chapter 9:** Section 9.1, 9.2, 9.3, and 9.4 (except the average-case analysis).

## Practice Problems

- Exercise 2.2-2, 2.2-4, 2.3-1, 2.3-5, 2.3-6.
- Problem 2-3.
- Exercise 4.1-5, 4.2-2.
- Problem 4-1.
- Exercise 6.1-5, 6.1-6, 6.2-2, 6.3-1, 6.3-2, 6.4-2, 6.4-3, 6.5-1, 6.5-2, 6.5-4, 6.5-8.
- Problem 6-1.
- Exercise 8.2-4, 8.3-2, 8.3-4,