

CS-452, Design and Analysis of Algorithms; CS-552, Applied Complexity Theory Spring 2005, Sections 1 and 2

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NOTE: Unless stated otherwise, all assigned problems come from the course textbook (Anany Levitin's "*The Design and Analysis of Algorithms*").

Assignment 1:

Read in Levitin's chapter 1: Sections 1.1 and 1.2 are **due 13 Jan 2005**, section 1.3 is **due 18 Jan 2005**, and section 1.4 is **due 20 Jan 2005**.

Section 1.1, exercises 2, 3a *or* 3b, 4, 6, 7, and 8a. **Due at the beginning of class, 20 Jan 2005.**

Assignment 2:

Read in Levitin's chapter 2: Section 2.1 is **due 27 Jan 2005**.

Section 1.2, exercises 3, 4, 7, and 9. For exercise 7c, write up the algorithm in pseudocode. **Due at the beginning of class, 27 Jan 2005.**

Assignment 3:

Read in Levitin's chapter 2: Section 2.2 is **due 01 Feb 2005**, and section 2.3 is **due 03 Feb 2005**.

Section 1.3, exercises 1, 3, 4, and 7. Section 1.4, exercises 1, 2, 3, 9a, and 9b. **Due 01 Feb 2005, at the beginning of class.**

Assignment 4:

Read in Levitin's chapter 2: Section 2.4 is **due 10 Feb 2005**.

Section 2.1, exercises 1, 3, 4, 5b & c, and 7 through 10.

Section 2.2, exercises 2, 5, 6b, and 8.

Section 2.3, exercises 1, 4, 5, and 6.

Exercises are due 10 Feb 2005, at the beginning of class.

Assignment 5:

Read in Levitin's chapter 2 and Appendix B: Section 2.5 and Appendix B pages 417-422 *only*, are **due 17 Feb 2005**.

Section 1.4, exercises to be assigned.