

# Homework 2

## CSc 72700: Analysis of Algorithms

### CUNY Graduate Center, Fall 2001

Due Wednesday, 12 September

See the guidelines on the webpage for details about submitting homework. (If turning your homework in electronically, you can mail it directly to the grader at: [ivm3@columbia.edu](mailto:ivm3@columbia.edu).)

### Practice Problems

The problems in this section **are not to be submitted**. They are to help you understand the material, and some will appear on exams.

- Problem 4-7 on p 75 (in the second edition: 4-6 on p 87).
- Exercise 7.1-1 on p 142 (in the second edition: 6.1-1 on p 129).
- Exercise 7.1-2 on p 142 (in the second edition: 6.1-2 on p 129).
- Exercise 7.2-1 on p 144 (in the second edition: 6.2-1 on p 132).
- Exercise 7.2-4 on p 144 (in the second edition: 6.2-4 on p 132).
- Exercise 7.3-2 on p 147 (in the second edition: 6.3-3 on p 135).

### Graded Problems

These problems will be graded and should be submitted, following the guidelines on the webpage.

1. Exercise on worst case running time for Heapify, 7-2.5 on p 144 (in the second edition: 6.2-6 on p 132).
2. Exercise 7.3-3 on p 147 (in the second edition: 6.3-3 on p 135).
3. Problem on building an heap using insertion, 7-1 on p 152 (in the second edition: 6-1 on p 142).