

Homework 1

CSc 72700: Analysis of Algorithms

CUNY Graduate Center, Fall 2001

Due Wednesday, 5 September

See the guidelines on the webpage for details about submitting homework.

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.

- Exercise on Fibonacci numbers, 2.2-7, p 37.
- Problem on asymptotic notation, 2-4, p 39.
- Exercises on summations, 3.1-1, 3.1-5, p 45.
- Exercises on recurrences, 4.1-1, 4.1-2, p 57.
- Problems on recurrences, 4-1, 4-4, p 72.

Graded Problems

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

1. (15 points) Problem on bounding summations, 3-1, p 52.
2. (20 points) Problem on parameter-passing costs, 4-3, p 73.
3. (25 points) Problem on Fibonacci numbers using generating functions, 4-6, p 74.