

Homework 6

CSc 72700: Analysis of Algorithms

CUNY Graduate Center, Fall 2001

Due Wednesday, 28 November 2001

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.)

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 23.2-3 on p 476 (in the second edition: 22.2-3 on p 539).
- Exercise 23.2-8 on p 477 (in the second edition: 22.2-8 on p 539).
- Exercise 23.3-4 on p 485 (in the second edition: 22.3-4 on p 548).
- Exercise 23.4-3 on p 488 (in the second edition: 22.4-3 on p 552).
- Exercise 23.5-1 on p 494 (in the second edition: 22.5-1 on p 557).
- Exercise 24.1-1 on p 503 (in the second edition: 23.1-1 on p 566).
- Exercise 25.3-1 on p 535 (in the second edition: 24.1-1 on p 599).
- Exercise 25.2-1 on p 531 (in the second edition: 24.3-1 on p 601).
- Exercise 25.2-5 on p 532 (in the second edition: 24.3-6 on p 601).
- Exercise 27.1-6 on p 586 (in the second edition: 26.1-6 on p 650).
- Exercise 27.2-1 on p 599 (in the second edition: 26.2-1 on p 663).
- Exercise 27.3-3 on p 604 (in the second edition: 26.3-3 on p 668).

Graded Problems

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

1. Diameter of a Tree
Exercise 23.2-7 on p 476 (in the second edition: 22.2-7 on p 539).
2. Euler Tour
23-3 on p 496 (in the second edition, 22-3 on p 559).
3. Updating a MST
24.2-8 on p 510 (in the second edition, 23.2-7 on p 574).
4. Arbitrage
25-3 on p 546 (in the second edition, 24-3 on p 615).
5. Escape Problem
27-1 on p 627 (in the second edition, 26-1 on p 692).