$22\mathbf{C}:031\ (CS:3310:0001)$ **Algorithms**
Homework 1

Solve the following exercises from Chapter 2:

- Problem 2 (15 points)

- Problem 3 (15 points)

- Problem 5 (15 points)

- Problem 8(a) (15 points)

The homework is due Thursday, February 3, in class; if you can't make it to class on that day, just make sure you get it to me by that time. Our policy on homeworks is reproduced for your convenience:

No collaboration is allowed on the exams and quizzes. For homework problems, collaboration is alright. We even encourage it, assuming each of you has first spent some time (about 45 minutes) thinking about the problem yourself. However, no written transcript (electronic or otherwise) of the collaborative discussion should be taken from the discussion by any participant. It will be assumed that each of you is capable of orally explaining the solution that you turn in, so do not turn in something you don't understand.