CMSC 451: Homework 2, Spring 2005

Due at the beginning of class on **March 1st, 2005.**

Warning: some of the problems require thought - do not wait until the last day to start working on them!

If you cannot come up with algorithms that run in the required time, then provide (correct) slower algorithms for partial credit. Write your answers using *pseudo-code* in the same style as the textbook. These make the algorithm description precise, and easy to read (as opposed to code in C or some other language).

In this homework, all problems are from Chapter 4.11 of the textbook.

1. Problem 1, page 179 of the textbook.
2. Problem 2, page 179 of the textbook.
3. Problem 5, page 180 of the textbook.
4. Problem 7, page 181-182 of the textbook.
5. **(For graduate students only.)** Problem 19, pages 188-189 of the textbook.