

CMSC 451: Homework 7, Spring 2006

Due at the beginning of class on **May 11, 2006**.

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).

The problems should be done by yourself: without any collaboration, or help from sources such as the Web.

NOTE: You must prove the correctness of your algorithms.

1. Exercise 1, Chapter 11, page 651. (10 points)
2. Exercise 4, Chapter 11, page 653. (5 points)
3. Exercise 2, Chapter 13, page 782. (5 points)