

CMSC 451: Homework 1, Spring 2006

Due at the beginning of class on **February 9, 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.

1. Problem 2, page 107 of the textbook. **(5 points)**
2. Problem 4, pages 107 and 108 of the textbook. **(5 points)**
3. Problem 6, page 108 of the textbook. **(5 points)**
4. Problem 9, page 110 of the textbook. **(10 points)**
5. Problem 10, pages 110 and 111 of the textbook. **(10 points)**