

CMSC 451: Homework 3, Spring 2005

Due at the beginning of class on **March 15, 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).

1. Problem 1 in Section 5.8, page 232 of the textbook.
2. Problem 2 in Section 5.8, pages 232 of the textbook.
3. Problem 3 in Section 5.8, page 233 of the textbook.
4. Problem 6 in Section 5.8, page 234 of the textbook.
5. **(For graduate students only.)** Problem 7 in Section 5.8, pages 234-235 of the textbook.