

# Computer Science 2300: Homework 6

Due: April 1, 2008

**Note:** Please use rigorous, formal arguments. If you are asked to provide an algorithm then you may either write pseudocode similar to the pseudocode in the DPV text, or provide a clear description in English. You **must** also provide an argument for why the algorithm is correct, and an analysis of the running time. We encourage you to collaborate with other students, while respecting the collaboration policy. Please write the names of all the other students you collaborated with on the homework. **Hardcopies are required by submission time. E-mailed versions will not be accepted.**

1. (5 points) DPV Problem 5.2 (page 148)
2. (5 points) DPV Problem 5.5 (pages 148-49)
3. (10 points) DPV Problem 5.19 (page 151)
4. (10 points) DPV Problem 5.22 (pages 151-52)
5. (10 points) DPV Problem 5.23 (page 152)
6. (10 points) DPV Problem 5.32 (page 154) (**remember to prove correctness, or you will not receive any credit!**)