

Computer Science 2300: Homework 8

Due: April 27, 2009

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 7.18 parts (a) and (b) (page 226)
2. (5 points) DPV Problem 7.19 (page 227)
3. (10 points) CLRS Problem 26-4 (page 694)
4. (10 points) CLRS Problem 26.2-9 (page 664)
5. (10 points) DPV Problem 8.4 (pages 264-65)
6. (15 points) DPV Problem 8.10 (page 266)
7. (15 points) DPV Problem 8.22 (page 269)