

Computer Science 2300: Homework 7

Due: April 15, 2008

Note: This problem set is on dynamic programming. For each question, provide the algorithm, an explanation of why the update rule is correct, and an analysis of the running time. The answers to most of the questions are quite short. As always, please use rigorous arguments. 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. (10 points) DPV Problem 6.2 (page 177)
2. (10 points) DPV Problem 6.4 (page 178)
3. (10 points) DPV Problem 6.7 (page 179)
4. (10 points) DPV Problem 6.17 (page 181)
5. (10 points) DPV Problem 6.24 (pages 183-84)
6. (10 points) DPV Problem 6.26 (pages 184-85)