

### CS 170: Problem Set 13

Due: November 28, 2011, 4:00 p.m.

**Instructions:** Turn this in to the class homework boxes in 283 Soda by 4:00 p.m. on Monday, November 28, 2011. Please begin your answer to each question on a new sheet of paper and make sure each sheet is labeled with your name, SID, section number, GSI name, the assignment number, the question number, and “CS 170 – Fall 2011.”

Because each problem will be graded by a different reader, please **turn in each question in a different box in 283 Soda**. Question  $i$  goes in the box labeled “CS 170 —  $i$ .”

Please read the class webpage for rules regarding collaboration (encouraged!) and cheating (forbidden!) on homework.

DPV = Dasgupta, Papadimitriou, and Vazirani.

1. DPV 8.2 [10 points]
2. DPV 8.6 [15 points]
3. DPV 8.9 [5 points]
4. DPV 8.10 [20 points]
5. DPV 8.12 [15 points]
6. DPV 8.21 [15 points]