CS395T: Randomized Algorithms David Zuckerman

- 1. Exercise 3.5 (page 50).
- 2. Exercise 3.7 (page 52).
- 3. Problem 1.9.
- 4. Problem 4.8.
- 5. Give a randomized (Las Vegas) algorithm to find the maximum item among n items in a constant expected number of rounds. In a round, an algorithm specifies n comparisons to be made, and then receives the results of these comparisons. The algorithm may do an unlimited amount of computation between rounds; however, the only access the algorithm has to the values of the items is the n comparisons made in a round.

Problem Set No. 3

due: Oct. 5, 2006