1. Exercise 3.5 (page 50).

2. Exercise 3.7 (page 52).

3. Problem 1.9.


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.