Homework Set #4

Assigned: Tuesday, 3/3                  Due: Tuesday, 3/10 (start of lecture)

This assignment covers textbook material in Chapters 1-6. 
Note: Refer to course web site for homework policies. Please attach signed honor statement.

1. (25 points) **Probabilistic Analysis**: In HIRE-ASSISTANT, assuming that the candidates are presented in a uniform random order, what is the probability that you hire at most once?

2. (35 points) **Randomized Algorithms**: Textbook Exercise 5.3-3 on p. 128.

3. (15 points) **HeapSort**: Textbook Exercise 6.2-3 on p. 156.

4. (25 points) **HeapSort**: Textbook Exercise 6.5-6 on p. 166.