State all necessary assumptions clearly.
Due date: April 1, 2010 in class

1. The complexity of the algorithm for the knapsack problem as studied in class is $O(nW)$, which is pseudo-polynomial, i.e., not polynomial in input size. Explain what is meant by "pseudo-polynomial."

2. Chapter 6, Solved Exercise 1, page 307

3. Chapter 6, Problem 2

4. Chapter 6, Problem 3

5. Chapter 6, Problem 4

6. For the sequence alignment problem, modify the code on page 282 to also produce (output) the actual alignment that gives the optimal value of the alignment.

7. Chapter 7, Problem 2

8. Chapter 7, Problem 3

9. Chapter 7, Problem 5

10. Chapter 7, Problem 10