CS3933 Assignment 10
Summer 2007

Due: Thursday, July 26, in class or by 10:00am in the box on E-level. Please try the questions before Tuesday, and ask questions then if you want to.

- Read chapter 7.
- Question 13 on page 324. Hint: try doing a reduction rather than a dynamic program.
- Question 26 on page 333. This is a good example of a two dimensional dynamic programming problem.
- Bonus question. Go back to question 8 on page 69, the "dropping the bottles" question, part a. Thus you have only two bottles that you can drop. Give an exact recurrence that the function f has to satisfy, and calculate the first 10 values.

  To solve a dynamic programming problem, you must define a mathematical function *in terms of the inputs*, then give a recurrence relation that it must satisfy (including a base case), and explain how you can calculate the function iteratively.