CSE 321: Discrete Structures
Assignment \#6
November 21, 2001
Due: Wednesday, November 28

Reading Assignment: Read Sections 6.1-6.5.

## Problems:

1. Rosen, Section 6.1, problem 4.
2. Rosen, Section 6.1, problem 20.
3. Extra credit: You are taking an exam with 6 questions. You haven't studied very much, so the probability that you can answer a given question is only $1 / 3$. However, your neighbor, the best student in the class, can answer a given question with probability $9 / 10$. So, you can (should?) do the exam by yourself, or you can try to cheat... For every question on which you try to cheat, there is a probability $1 / 6$ that you will be caught. If you are caught, you get zero for the whole exam. However, if you are not caught, you get the answer from your neighbor, which is likely to be better than your own. What strategy will maximise your expected grade for this exam? That is, should you try to cheat? How many times?

## Have a Happy Thanksgiving!

