Homework 2

Handed out: 9/7/06

Due: 9/12/06

- 1. The PCR techniques leads to three types of molecules being present in the solution:
 - the initial DNA molecule (2 individual strands)
 - molecules terminated at one end by a primer
- molecules terminated at both ends by a primer(the DNA we are trying to amplify) How many of each type of molecule are present in the mix after the k-th denaturing step. Either provide a close-form equation for each type of molecule, or give the numbers for k = 5 and k = 6.
- 2. Problem 1 from Chapter 1 of Gusfield textbook.
- 3. Problem 10 from Chapter 1 of Gusfield textbook.