Homework #6
Introduction to Algorithms/Algorithms 1
600.363/463

Due on: Friday, May 4th, 11:59 a.m. (NOON)

Where to submit: On blackboard, under student assessment
Late submissions: will NOT be accepted

Format: Please start each problem on a new page.
Please type your answers.

April 22, 2012

Problem 1

Let G be a bipartite graph. A perfect matching is a matching in which every vertex is matched. Design an algorithm for finding a perfect matching in G (if one exists.)

1   Problem 2

Solve Exercise 25.2-6 from CLRS (read Chapter 25.2 and lecture notes.)

2   Problem 3

Solve Exercise 35.2-5. Note that approximation algorithms will be covered during this week.