

## Problem Set 6

**Due dates:** Electronic submission of .tex and .pdf files of this homework is due on **10/19/2012 before 10:00am** on csnet.cs.tamu.edu, a signed paper copy of the pdf file is due on **10/19/2012** at the beginning of class.

**Name:** (put your name here)

**Resources.** (All people, books, articles, web pages, etc. that have been consulted when producing your answers to this homework)

On my honor, as an Aggie, I have neither given nor received any unauthorized aid on any portion of the academic work included in this assignment. Furthermore, I have disclosed all resources (people, books, web sites, etc.) that have been used to prepare this homework.

**Signature:** \_\_\_\_\_

## **BFS**

**Problem 1.** (10 points) Exercise 22.2-4 on page 602.

**Solution.**

**Problem 2.** (15 points) Exercise 22.2-6 on page 602.

**Solution.**

## **DFS**

**Problem 3.** (15 points) Exercise 22.3-2 on page 610.

**Solution.**

**Problem 4.** (15 points) Exercise 22.3-5 on page 610.

**Solution.**

## **Topological Sorting**

**Problem 5.** (15 points) Exercise 22.4-1 on page 614

**Solution.**

## **Dijkstra**

**Problem 6.** (15 points) Exercise 24.3-3 on page 663.

**Solution.**

**Problem 7.** (15 points) Exercise 24.3-5 on page 663.

**Solution.**

Discussions on piazza are always encouraged, especially to clarify concepts that were introduced in the lecture. However, discussions of homework problems on piazza should not contain spoilers. It is okay to ask for clarifications concerning homework questions if needed.

## **Checklist:**

- Did you add your name?
- Did you disclose all resources that you have used?  
(This includes all people, books, websites, etc. that you have consulted)
- Did you sign that you followed the Aggie honor code?
- Did you solve all problems?
- Did you submit (a) your latex source file and (b) the resulting pdf file of your homework?
- Did you submit (c) a hardcopy of the pdf file in class?