CS 215 - Fundamentals of Programming II
Spring 2010- Homework 9
25 points

Out: April 14, 2010
Due: April 21, 2010

Answer the following written and programming exercises from Chapters 10 and 14 in the textbook. When a question says "implement" just write the implementations on paper. Do the same for the programming exercises. You do not need to type the code into the computer (unless you want to, of course).

1. (3 points) Exercise 29 on page 579. Note: this is a member function of the stree class.
2. (3 points) Exercise 31 on page 579. Note: this is a member function of the stree class.
3. (3 points) Exercise 35 on page 579. Note: this function is for a generic binary tree, not a BST.
4. (3 points) Exercise 37 on page 579. Note: this function is for a generic binary tree, not a BST.
5. (3 points) Exercise 13 on page 849.
6. (3 points) Exercise 18 on page 850. Note: use the heapify algorithm.
7. (3 points) Exercise 22(a) on pages 851-852. Note: use the heapify algorithm.
8. (4 points) Exercise 25 on pages 852. Note: the vector must be heapified first.