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CS 24, Fall 2014
Hw8: Homework - to be done before Lab08 (50 total points)
Print this form, and write your answers on it.
Accepted: on paper, at the beginning of your lab section on Monday, Dec 1. Place on front desk, before getting seated.
Name (1 pt): _____
Umail (1 pt): _____@umail.ucsb.edu
                                                                     2:00
Lab Section (1 pt) Circle one:
                                        12:00
                                                       1:00
                                                                                  3:00
   1. Read Chapter 8, about trees generally, but mostly about Binary Search Trees.
      a. (5 pts) What is a Binary Search Tree?
       b. (6 pts) Draw the Binary Search Tree structure that results by inserting
the following values in this order: 17, 6, 22, 11, 25, 4
c. (6) The "in-order" traversal of the values inserted in part b is 4 6 11 17 22 25. Show both the "pre-order" and "post-order" traversals.
      pre-order:
      post-order:
   2. (6 pts) Let the following structure be a node of a Binary Search Tree:
      struct TreeNode {
           int info;
TreeNode *left;
           TreeNode *right;
       Complete the following function to return the greatest value in the tree:
      int greatest(TreeNode *tree) { // use iteration or recursion; your choice
   if (tree == NULL) return 0;
```

}

