

**CS2402**  
**Spring 2009**  
**Lab 5**  
**Lists and Binary Search Trees**  
Due Tuesday, March 24, 2009

**Instructions**

Write the following methods related to lists and binary search trees of strings:

- a) A method to determine the height of a binary tree
- b) A method that receives an unordered list and builds a binary search tree with the elements of that list.
- c) A method that receives an unordered list and builds an AVL tree with the elements of that list.
- d) A method that receives an ordered list and builds a minimum-height binary search tree with the elements in the list.
- e) A method that receives a binary search tree and builds an ordered list with the elements in the tree.
- f) A main method to demonstrate that all your other methods work properly.

Test your methods using the same text files you used for lab 4.