CS14 – Lab 3

Warmup. A palindromic number reads the same both ways. The largest palindrome made from the product of two 2-digit numbers is 9009 = 91 × 99. Find the largest palindrome made from the product of two 3-digit numbers.

Exercises: iLearn has code for a binary tree class. First, you must extend it so that it can handle trees of any arity. You will have to:

1. Change the private member variables so that it uses a list of substrees, rather than just a left and right subtree.
2. Modify the loadTree() function to insert subtrees into the list
3. Modify the depthFirst() search function to search from the subtrees in the list

Next, implement the breadthFirst() search function on the resulting Tree.