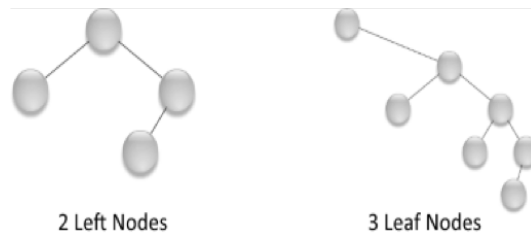


CSC 212 Tutorial #8

Binary Trees

Problem 1

Write the method *countLeafNodes* part of the *Binary Tree ADT*. The method should return the number of leaf nodes in the tree. A leaf node is a node that has no children. The method signature is: **public int countLeafNodes()**.



Problem 2

Write the method *getHeight* part of the *Binary Tree ADT*. It should return the height of the tree. The height of the tree is the longest path from the root to a leaf node. The method signature is: **public int getHeight()**.



Problem 3

Write the static method *swapMost* (user of *Binary Tree ADT*) that takes a Binary Tree *bt* and swaps the data of the left most node with the right most node. The method signature is **public static <T> void swapMost(BinaryTree<T> bt)**.

