COMP 251 - Week7 – Lab 5

Due June 7th, 2017

Goal: This lab will give you practice with binary trees.

Getting Started
You can have a partner for this lab, but submit individually. You can read the lectures to answer the question.

Download the files for this lab from Q-Drive. Classes BinaryTree and BinaryNode implement a binary tree. Create an empty project in Eclipse and call it 'BinaryTree'. Add classes: BinaryTree, BinaryNode. The main() method of BinaryTree includes test code.
Read BinaryTree.java and BinaryNode.java to find out what methods are available.
The test1() method in BinaryTree creates a tree like this:

1. Write a function test2() that generates a tree with 7 nodes (including root) minimum height.
2. Write a function test3() that generates a tree with 7 nodes (including root) maximum height.
3. Implement height() for BinaryTree (you need to define the helper function in BinaryNode)

Optional (Not Mandatory)
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4. Implement printPostOrder() for BinaryTree (you need to define the helper function in BinaryNode)
5. Implement printPreOrder() for BinaryTree (you need to define the helper function in BinaryNode)