Topic: Height of the Tree

In this recitation, we will implement code for **the height of the tree**
We will use a **C++ queue** to implement the code:
http://www.cplusplus.com/reference/queue/queue/
OR
Refer the code for level order traversal in Canvas

Here is the algorithm for getting the height:

Define a C++ queue.
Push root into the queue.
height = 0

Infinite Loop i.e while(1)
{   nodeCount = size of queue

      // If the number of nodes at this level is 0, return height
    if nodeCount is 0
        return Height;
    else
    {   increase Height

        // Remove nodes of this level and add nodes of
        // next level
    while (nodeCount > 0)
      {
        pop node from front . This is two step 1) to peek using myq.front() 2) to pop using myq.pop
        push it's children to queue only if they are not NULL
        decrease nodeCount
        // At this point, queue has nodes of next level
      }
    }
}

You are provided with the code that implements the tree class. You need to complete the function height and call it from the main to print the height.