Assignment -3

1. Implement the following function to find the height of a binary tree.
 int height();
Can use the following link to test the correctness of the algorithm/code.
https://www.hackerrank.com/challenges/tree-height-of-a-binary-tree/problem

2. Implement a function to find the smallest element in a binary search tree.
Find the time complexity of the algorithm.
int findSmallest();

3. Implement a function to find the largest element in a binary search tree.
 Find the time complexity of the algorithm.
 int findLargest();

Practice problem:

1. Insert into a Binary Search Tree
https://leetcode.com/problems/insert-into-a-binary-search-tree/

2. Delete Node in a BST
https://leetcode.com/problems/delete-node-in-a-bst/

3. Binary Tree Level Order Traversal
https://leetcode.com/problems/binary-tree-level-order-traversal/

4. Binary Tree Level Order Traversal II
https://leetcode.com/problems/binary-tree-level-order-traversal-ii/

5. Diameter of Binary Tree
https://leetcode.com/problems/diameter-of-binary-tree/

6. Convert Sorted Array to Binary Search Tree
https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/

7. Convert Sorted List to Binary Search Tree
https://leetcode.com/problems/convert-sorted-list-to-binary-search-tree/