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/