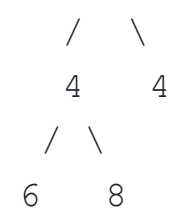
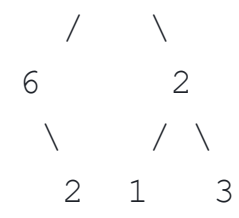
Largest BST

Given a binary tree. Find the **size** of its largest subtree which is a Binary Search Tree.
Note: Here Size equals the number of nodes in the subtree.

Examples :

Input:

Output: 1
Explanation: There's no sub-tree with size greater than 1 which forms a BST. All the leaf Nodes are the BSTs with size equal to 1.

Input:

Output: 3
Explanation: The following sub-tree is a BST of size 3 i.e 2(root)->1(left)->3(right)

Expected Time Complexity: O(n).
Expected Auxiliary Space: O(Height of the BST).

Constraints:

$1 \leq$ Number of nodes $\leq 10^5$

$1 \leq$ Data of a node $\leq 10^6$