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/**
 * Definition for a binary tree node.
 * public class TreeNode {
 *     int val;
 *     TreeNode left;
 *     TreeNode right;
 *     TreeNode(int x) { val = x; }
 * }
 */
class Solution {

    public boolean isValidBST(TreeNode root) {
        return validate(root, Long.MAX_VALUE, Long.MIN_VALUE);
    }

    public boolean validate(TreeNode root, long max, long min) {
        if (root == null) return true;
        if (root.val <= min || root.val >= max) return false;
        return validate(root.left, root.val, min) && validate(root.right, max, root.val);
    }
    /*
    public boolean isValidBST(TreeNode root) {
        Stack<TreeNode> s = new Stack<>();
        TreeNode pre = null;
        while (!s.isEmpty() || root != null) {
            while (root != null) {
                s.push(root);
                root = root.left;
            }
            root = s.pop();
            if (pre != null && pre.val >= root.val)
                return false;
            pre = root;
            root = root.right;
        }
        return true;
    }
    */
}
```