# Definition for a binary tree node.

# class TreeNode:

# def \_\_init\_\_(self, x):

# self.val = x

# self.left = None

# self.right = None

class Solution:

# @param {TreeNode} root

# @return {boolean}

def isValidBST(self, root):

if root is None:

return True

return self.isValid(root,float("-inf"), float("inf"))

def isValid(self, root, lower, upper):

is\_valid = True

if root:

if (root.val > lower) and (root.val < upper) :

if root.left:

is\_valid = self.isValid(root.left, lower, root.val)

if is\_valid and root.right :

is\_valid = self.isValid(root.right, root.val, upper)

else:

is\_valid = False

return is\_valid