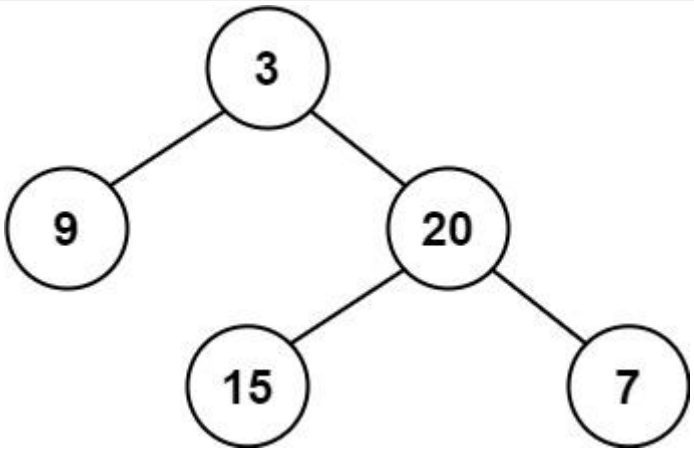
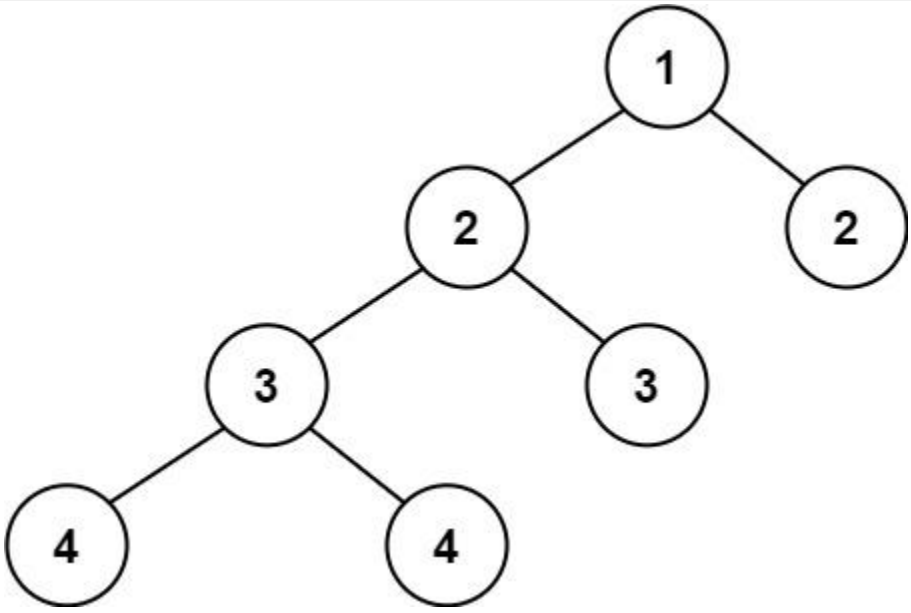
Given a binary tree, determine if it is height-balanced.

Example 1:



Input: root = [3,9,20,null,null,15,7] Output: true

Example 2:



Input: root = [1,2,2,3,3,null,null,4,4] Output: false

Example 3:

Input: root = [] Output: true

Constraints:

- **The number of nodes in the tree is in the range [0, 5000].**

- -104 <= Node.val <= 104

Solution:

```
class Solution {

    public int checkHeight(TreeNode root, int[] arr) {

        if (root == null) return 0;



        int leftHeight = checkHeight(root.left, arr);

        int rightHeight = checkHeight(root.right, arr);



        if (Math.abs(leftHeight - rightHeight) > 1) {

            arr[0] = 1;

        }



        return 1 + Math.max(leftHeight, rightHeight);

    }



    public boolean isBalanced(TreeNode root) {

        int[] arr = new int[1];

        checkHeight(root, arr);

        return arr[0] == 0;

    }

}
```