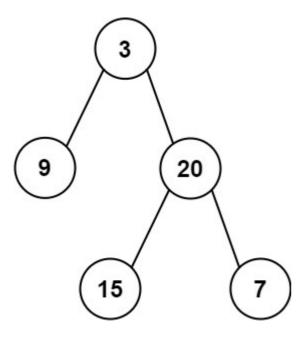
637. Average of Levels in Binary Tree

Given the root of a binary tree, return the average value of the nodes on each level in the form of an array. Answers within 10-5 of the actual answer will be accepted.



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

Output: [3.00000,14.50000,11.00000]

Explanation: The average value of nodes on level 0 is 3,

on level 1 is 14.5, and on level 2 is 11.

Hence return [3, 14.5, 11].

```
def averageOfLevels(self, root: TreeNode) -> List[float]:
    stack = [root]
    res = []

while True:
    if len(stack) == 0:
        break

length = len(stack)
    tempSum = 0

for i in range(length):
    temp = stack.pop(0)
    tempSum = tempSum+temp.val
    if temp.left!=None:
        stack.append(temp.left)
    if temp.right!=None:
```

stack.append(temp.right)

res.append(tempSum/length)

return res