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637. Average of Levels in Binary Tree

Easy

4168

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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.

Example 1:

3

9

20

15

7

Input: `root = [3,9,20,null,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]`.

Example 2:

3

9

20

15

7

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

Output: `[3.00000,14.50000,11.00000]`

Constraints:

- The number of nodes in the tree is in the range $[1, 10^4]$.
- $-2^{31} \leq \text{Node.val} \leq 2^{31} - 1$

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/**

* Definition for a binary tree node.

* public class TreeNode {

* int val;

* TreeNode left;

* TreeNode right;

* TreeNode() {}

* TreeNode(int val) { this.val = val; }

* TreeNode(int val, TreeNode left, TreeNode right) {

* this.val = val;

* this.left = left;

* this.right = right;

* }

* }

*/

class Solution {

public List<Double> averageOfLevels(TreeNode root) {

}

}

Problems

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