2265. Count Nodes Equal to Average of Subtree

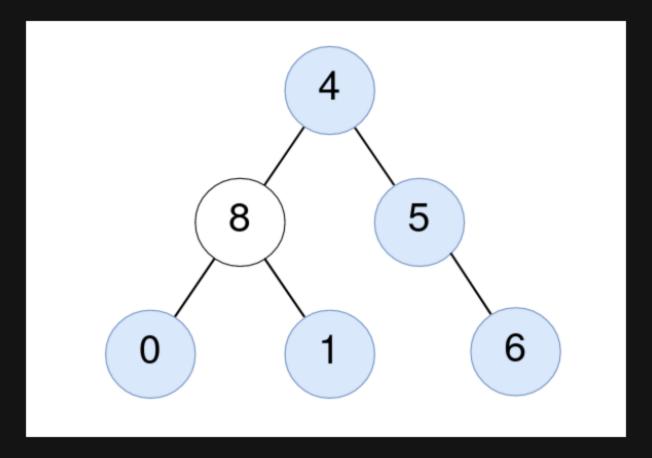
Description

Given the root of a binary tree, return the number of nodes where the value of the node is equal to the average of the values in its subtree.

Note:

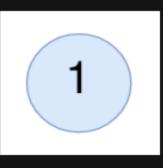
- The average of n elements is the sum of the n elements divided by n and rounded down to the nearest integer.
- A subtree of root is a tree consisting of root and all of its descendants.

Example 1:



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Input: root = [4,8,5,0,1,null,6]
Output: 5
Explanation:
For the node with value 4: The average of its subtree is (4 + 8 + 5 + 0 + 1 + 6) / 6 = 24 / 6 = 4.
For the node with value 5: The average of its subtree is (5 + 6) / 2 = 11 / 2 = 5.
For the node with value 0: The average of its subtree is 0 / 1 = 0.
For the node with value 1: The average of its subtree is 1 / 1 = 1.
For the node with value 6: The average of its subtree is 6 / 1 = 6.
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Example 2:



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Input: root = [1]
Output: 1
Explanation: For the node with value 1: The average of its subtree is 1 / 1 = 1.
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Constraints:

- The number of nodes in the tree is in the range [1, 1000].
- 0 <= Node.val <= 1000