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Description

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1448. Count Good Nodes in Binary Tree

Medium

4007

112

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Given a binary tree `root`, a node `X` in the tree is named **good** if in the path from `root` to `X` there are no nodes with a value *greater than* `X`.

Return the number of **good** nodes in the binary tree.

Example 1:

Input: `root = [3,1,4,3,null,1,5]`
Output: `4`
Explanation: Nodes in blue are **good**.
Root Node (3) is always a good node.
Node 4 -> (3,4) is the maximum value in the path starting from the root.
Node 5 -> (3,4,5) is the maximum value in the path
Node 3 -> (3,1,3) is the maximum value in the path.

Example 2:

Input: `root = [3,3,null,4,2]`
Output: `3`
Explanation: Node 2 -> (3, 3, 2) is not good, because "3" is higher than it.

Example 3:

Input: `root = [1]`
Output: `1`
Explanation: Root is considered as **good**.

Constraints:

- The number of nodes in the binary tree is in the range `[1, 10^5]`.
- Each node's value is between `[-10^4, 10^4]`.

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Seen this question in a real interview before?

Yes

No

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```
1 /**
2  * Definition for a binary tree node.
3  * public class TreeNode {
4  *     int val;
5  *     TreeNode left;
6  *     TreeNode right;
7  *     TreeNode() {}
8  *     TreeNode(int val) { this.val = val; }
9  *     TreeNode(int val, TreeNode left, TreeNode right) {
10 *         this.val = val;
11 *         this.left = left;
12 *         this.right = right;
13 *     }
14 * }
15 */
16 class Solution {
17     public int goodNodes(TreeNode root) {
18
19     }
20 }
```

Problems

Pick One

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1448/2394

Next >

Console

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