75 Days of Code Day 35 Problem1448. Count Good Nodes in Binary Tree

Type:BST/dfs

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:

Shubham Agrahari

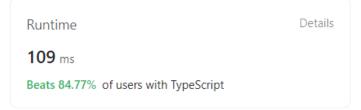
Input: root = [1]

Output: 1

Explanation: Root is considered as good.

Solution using DFS

1. Traverse the list with recursion



Memory

78.72 MB

Beats 59.77% of users with TypeScript

P Editorial