

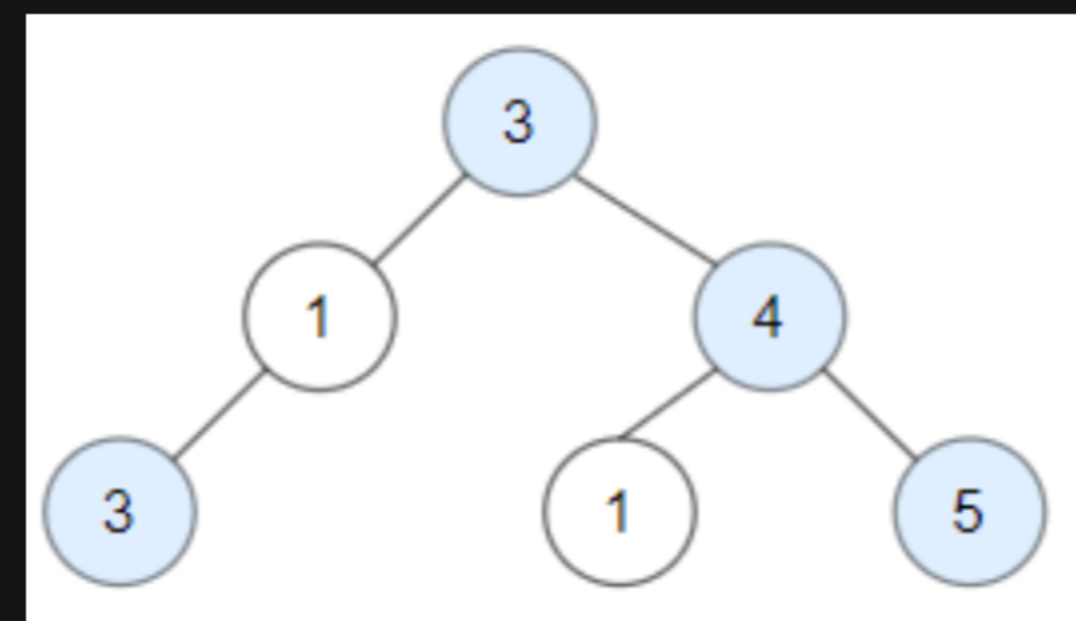
# 1448. Count Good Nodes in Binary Tree

## Description

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*  $X$ .

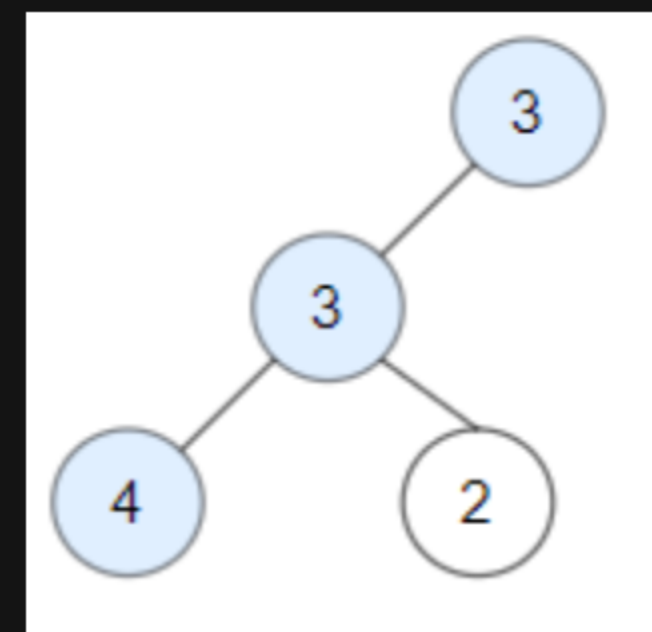
Return the number of **good** nodes in the binary tree.

### 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, 105]`.
- Each node's value is between `[-104, 104]`.

