



Hello, 2024101067.

Unbalanced Nodes

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Unbalanced Nodes in Binary Search Tree

Problem Description

Given the postorder traversal of a Binary Search Tree (BST), determine the number of unbalanced nodes in the tree. A node is considered unbalanced if the absolute difference between the heights of its left and right subtrees is greater than 1.

Input Format

- First line contains an integer N ($1 \leq N \leq 10^5$), representing the number of nodes in the BST
- Second line contains N space-separated integers representing the postorder traversal of the BST
- Each node value is unique and in the range $[-10^6, 10^6]$

Output Format

- Single integer representing the count of unbalanced nodes in the BST

Sample Input

```
3
3 2 4
```

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Sample Output



Hello, **2024101067**.

Explanation

The given postorder traversal forms the following BST:

```
  4
 /
2
 \
 3
```

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In this tree, only node 4 is unbalanced as its right subtree height is 0 and left subtree height is 2.

Note

- The BST is guaranteed to be valid and can be uniquely constructed from the given postorder traversal
- A single node is always balanced
- If a node has only one child and the child is a leaf then the node is balanced

? Clarifications

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No clarifications have been made at this time.