



### **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 ( $1 \le N \le 10^5$ ), 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

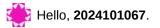
3 3 2 4

#### **Sample Output**

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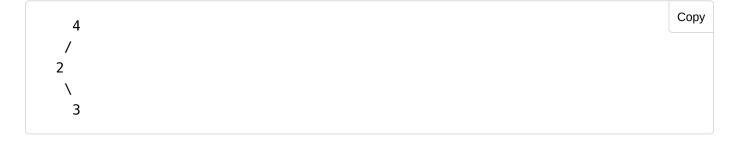
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#### **Explanation**

The given postorder traversal forms the following BST:



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

Report an issue

3/6/25, 18:54

No clarifications have been made at this time.

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