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298. Binary Tree Longest Consecutive Sequence

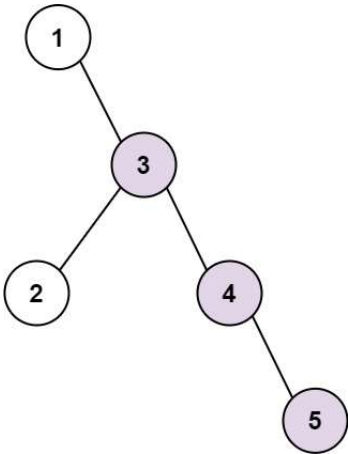
Medium 1004 230 Add to List Share

Given the `root` of a binary tree, return *the length of the longest consecutive sequence path*.

A **consecutive sequence path** is a path where the values **increase by one** along the path.

Note that the path can start **at any node** in the tree, and you cannot go from a node to its parent in the path.

Example 1:



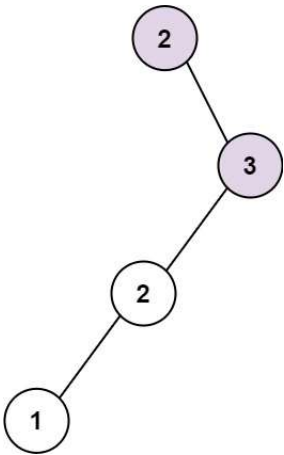
```
graph TD
    1((1)) --> 3((3))
    3 --> 2((2))
    3 --> 4((4))
    4 --> 5((5))
    style 3 fill:#d8bfd8
    style 4 fill:#d8bfd8
    style 5 fill:#d8bfd8
```

Input: `root = [1,null,3,2,4,null,null,null,5]`

Output: 3

Explanation: Longest consecutive sequence path is 3-4-5, so return 3.

Example 2:



```
graph TD
    2((2)) --> 3((3))
    3 --> 2((2))
    2 --> 1((1))
    style 2 fill:#d8bfd8
    style 3 fill:#d8bfd8
```

Input: `root = [2,null,3,2,null,1]`

Output: 2

Explanation: Longest consecutive sequence path is 2-3, not 3-2-1, so return 2.

Constraints:

- The number of nodes in the tree is in the range $[1, 3 \times 10^4]$.
- $-3 \times 10^4 \leq \text{Node.val} \leq 3 \times 10^4$

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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 longestConsecutive(TreeNode root) {
18
19     }
20 }
```

Problems

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Console

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