

Description

Solution

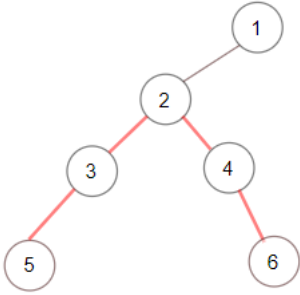
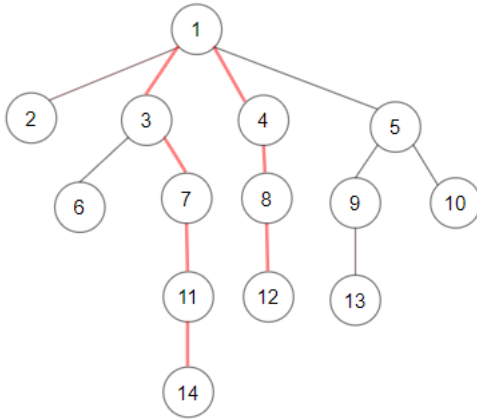
Discuss (252)

Submissions

C++

Autocomplete

i {} ↺ ↻ ↺

Input: root = [1,null,3,2,4,null,5,6]**Output:** 3**Explanation:** Diameter is shown in red color.**Example 2:****Input:** root = [1,null,2,null,3,4,null,5,null,6]**Output:** 4**Example 3:****Input:** root =

[1,null,2,3,4,5,null,null,6,7,null,8,null,9,10,null,null,11,null,12,null,13,null,14]

Output: 7**Constraints:**

- The depth of the n-ary tree is less than or equal to 1000.
- The total number of nodes is between $[1, 10^4]$.

Accepted 36,731

Submissions 49,978

Seen this question in a real interview before?

Yes

No

Companies i

Related Topics

Similar Questions

Show Hint 1

Show Hint 2

```

1  /*
2  // Definition for a Node.
3  class Node {
4  public:
5      int val;
6      vector<Node*> children;
7
8      Node() {}
9
10     Node(int _val) {
11         val = _val;
12     }
13
14     Node(int _val, vector<Node*> _children) {
15         val = _val;
16         children = _children;
17     }
18 };
19 */
20
21 class Solution {
22 public:
23     int diameter(Node* root, int &maxLen)
24     {
25         int maxi = 0, secondMaxi = 0;
26         for(Node* children : root->children)
27         {
28             int len = diameter(children, maxLen);
29             if(len > maxi)
30             {
31                 secondMaxi = maxi;
32                 maxi = len;
33             }
34             else if(len > secondMaxi)
35             {
36                 secondMaxi = len;
37             }
38         }
39         maxLen = max(maxLen, maxi + secondMaxi);
40         return maxi + 1;
41     }
42
43     int diameter(Node* root) {
44         int maxLen = 0;
45         diameter(root, maxLen);
46         return maxLen;
47     }
48 };

```

NEW

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

?

Your input

[1,null,2,3,4,5,null,null,6,7,null,8,null,9,10,null,null,

Output

7

Diff

Expected

7

Console...

[Use Example Testcases](#)

?

▶ Run Code ^

Submit

Problems

✕ Pick One

< Prev

1522/2509

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