

Problem 429: N-ary Tree Level Order Traversal

Problem Information

Difficulty: Medium

Acceptance Rate: 71.37%

Paid Only: No

Tags: Tree, Breadth-First Search

Problem Description

Given an n-ary tree, return the `_level order_` traversal of its nodes' values.

`_Nary-Tree` input serialization is represented in their level order traversal, each group of children is separated by the null value (See examples).

Example 1:



Input: root = [1,null,3,2,4,null,5,6] **Output:** [[1],[3,2,4],[5,6]]

Example 2:



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

Constraints:

* The height of the n-ary tree is less than or equal to `1000` * The total number of nodes is between `[0, 104]`

Code Snippets

C++:

```
/*
// Definition for a Node.
class Node {
public:
    int val;
    vector<Node*> children;

    Node() {}

    Node(int _val) {
        val = _val;
    }

    Node(int _val, vector<Node*> _children) {
        val = _val;
        children = _children;
    }
};
*/

class Solution {
public:
    vector<vector<int>> levelOrder(Node* root) {

    }
};
```

Java:

```
/*
// Definition for a Node.
class Node {
public int val;
public List<Node> children;

    public Node() {}

    public Node(int _val) {
        val = _val;
    }
};
```

```

}

public Node(int _val, List<Node> _children) {
    val = _val;
    children = _children;
}
};
*/

class Solution {
public List<List<Integer>> levelOrder(Node root) {

}

}

```

Python3:

```

"""
# Definition for a Node.
class Node:
    def __init__(self, val: Optional[int] = None, children:
Optional[List['Node']] = None):
        self.val = val
        self.children = children
"""

class Solution:
    def levelOrder(self, root: 'Node') -> List[List[int]]:

```