

# 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]]:

```