Description Solution Discuss (220) Submissions

1490. Clone N-ary Tree

Medium 260 13 Add to List Share

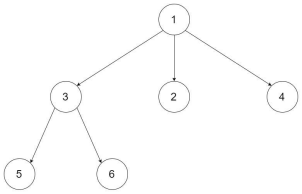
Given a `root` of an N-ary tree, return a **deep copy** (clone) of the tree.

Each node in the n-ary tree contains a val (`int`) and a list (`List[Node]`) of its children.

```
class Node {
    public int val;
    public List<Node> children;
}
```

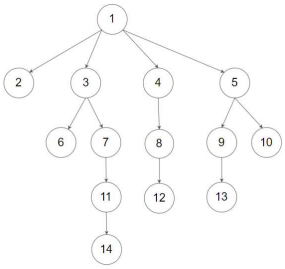
Nary-Tree input serialization is represented in their level order traversal, each group of children is separated by the null value (See examples).

Example 1:




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

Output:
[1,null,2,3,4,5,null,null,6,7,null,8,null,9,10,null,null,11,null,12,null,13,null,nul
```

Constraints:

- The depth of the n-ary tree is less than or equal to `1000` .
- The total number of nodes is between `[0, 10^4]` .

Follow up: Can your solution work for the graph problem?

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Java Autocomplete

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


    public Node() {
        children = new ArrayList<Node>();
    }

    public Node(int _val) {
        val = _val;
        children = new ArrayList<Node>();
    }

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

class Solution {
    public Node cloneTree(Node root) {

    }
}
```

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