1490. Clone N-ary Tree

Premium

Solved

Medium | Topics | Companies | Hint

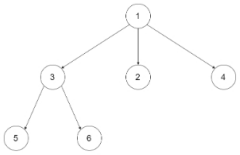
Given a `root` of an N-ary tree, return a **deep copy** (clone) of the tree.

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;
}
```

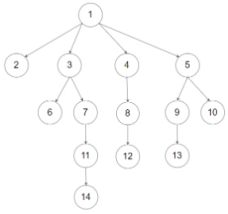
Nary-Tree input serialization is represented in their level order traversal, each group of children is separated by the null value (See examples).

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,null,14]
Output:
[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]
```

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?

Seen this question in a real interview before? 1/5

Yes | No

Accepted 28.8K | Submissions 34.7K | Acceptance Rate 83.1%

Topics

Companies

Hint 1

Hint 2

Similar Questions

Discussion (3)

Code

Python3 • Auto

```python
"""
# Definition for a Node.
class Node:
    def __init__(self, val=None, children=None):
        self.val = val
        self.children = children if children is not None else []
"""

class Solution:
    def cloneTree(self, root: 'Node') -> 'Node':
        return deepcopy(root)
```

Saved

Ln 11, Col 30

Testcase | Test Result

Accepted Runtime: 36 ms

• Case 1 • Case 2

Input

root =
[1,null,3,2,4,null,5,6]

Output

[1,null,3,2,4,null,5,6]

Expected

[1,null,3,2,4,null,5,6]

Contribute a testcase