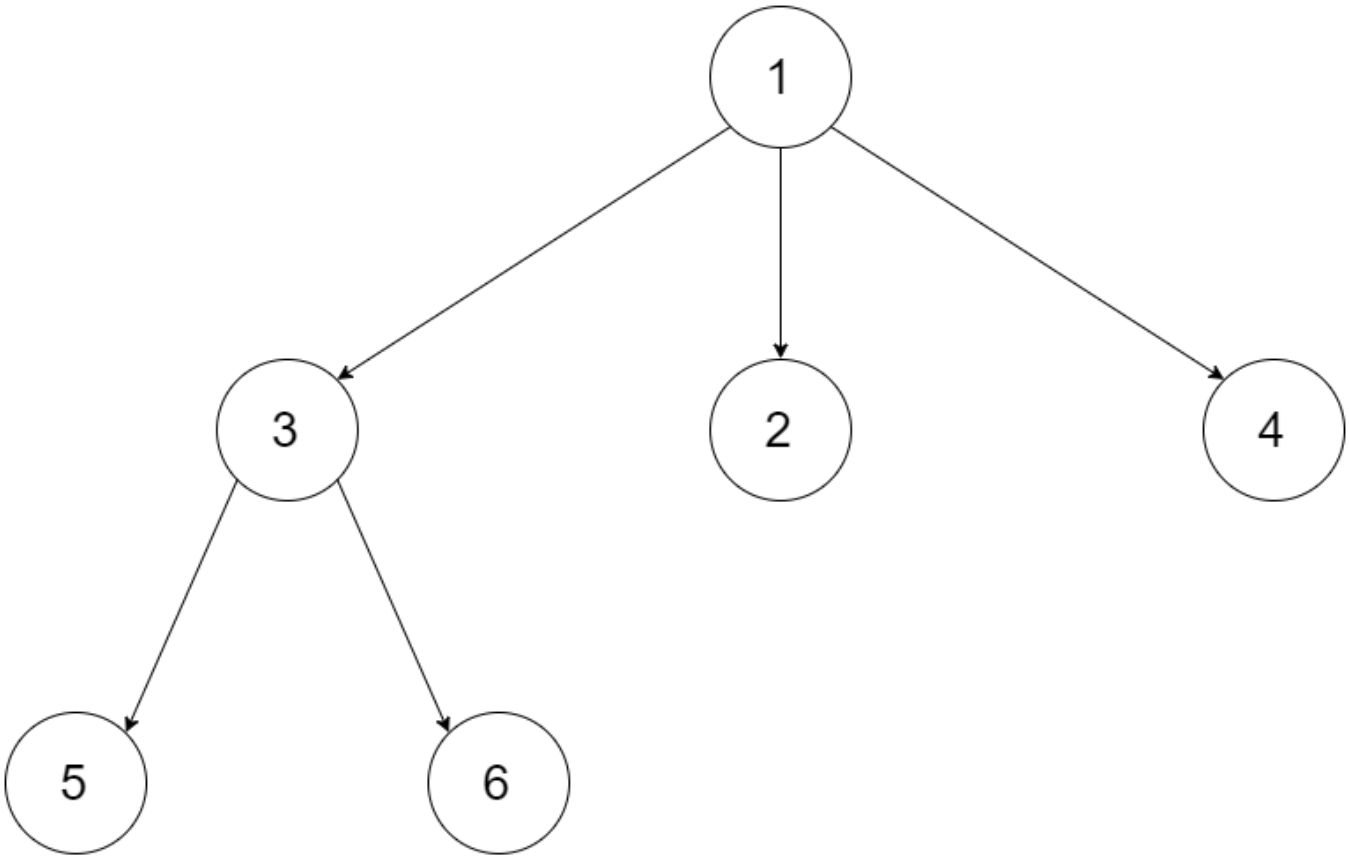
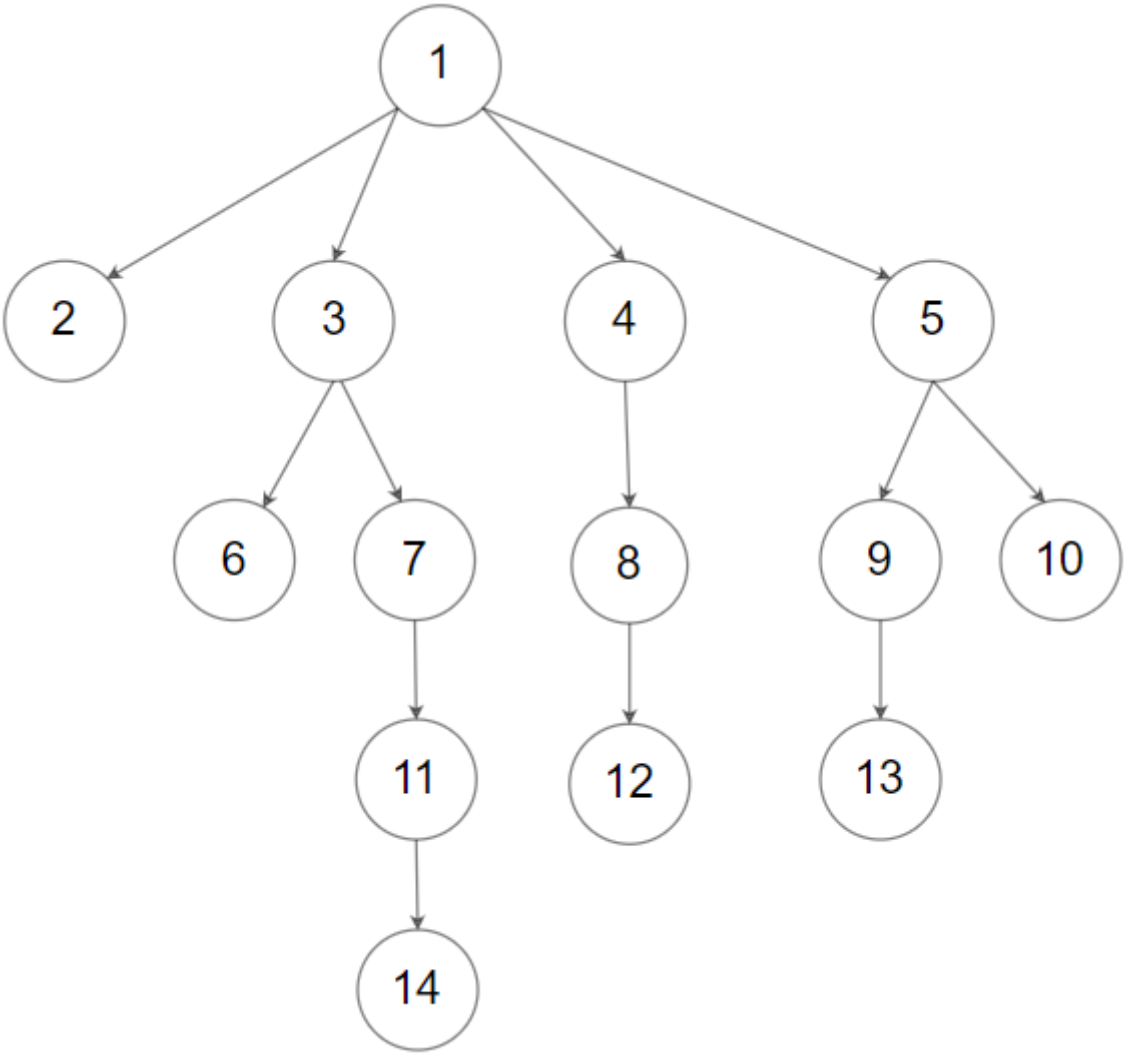
589. N-ary Tree Preorder Traversal

Given the `root` of an n-ary tree, return *the preorder 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)



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



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

```
#Recursive approach
def preorder(self, root: 'Node') -> List[int]:
        ans = []

        self.helper(root,ans)
        return ans


    def helper(self,root,ans):
        if root is None:
            return
        ans.append(root.val)
        for nodes in root.children:
            self.helper(nodes,ans)

#Iterative Approach
```

```python
def preorder(self, root: 'Node') -> List[int]:
        if not root:
            return []
        ans = []
        ans.append(root)
        res = []

        while ans:
            temp = ans.pop()
            res.append(temp.val)
            ans.extend(reversed(temp.children))
        return res
```