

```

③ clone graph DFS
Set<Node> visited = new HashSet<>();
Node cloneGraph(Node n) {
    Node clone = new Node(n.val);
    List<Node> children = new ArrayList<>();
    for(Node c : n.children) {
        if (visited.contains(c))
            continue;
        Node copy = cloneGraph(c);
        children.add(copy);
    }
    clone.children = children;
    return clone;
}

```

For each node

- create clone
- create new list
- for each child
 - add child to list
- Return clone