Question: https://leetcode.com/problems/clone-graph/

So we use DFS to traverse the graph and create a copy node and then again recursively create its neighbour nodes until we find that copy of the neighbour is already created.

Code:

class Solution {

public Node cloneGraph(Node node) {

if(node == null) return null;

Map<Integer, Node> map = new HashMap<>();

return cloneGraph(node, map);

}

private Node cloneGraph(Node node, Map<Integer, Node> map){

if(map.containsKey(node.val)) return map.get(node.val);

Node copy = new Node(node.val);

map.put(node.val, copy);

for(Node neighbor : node.neighbors) copy.neighbors.add(cloneGraph(neighbor, map));

return copy;

}

}

Github Link :<https://lnkd.in/ecwtJeaz>