



Example 1:

ion(self, edges: List[List[int]]) -> List[int]:

parent[p] = parent[parent[p]]

return False

parent[p2] = p1

parent[p1] = p2

return [n1, n2]

rank[p1] += rank[p2]

rank[p2] += rank[p1]

parent = [0, 1, 2, 3, 4, 5]

rank = [1, 1, 1, 1, 1, 1]

Output: [1,4]

Input: edges = [[1,2],[2,3],[3,4],[1,4],[1,5]]

Union-Find

 \rightarrow union(x,y): unions the groups containing x and y

find(x): find the group that x belongs

 $find(3) \Rightarrow 0$

 $find(0) \Rightarrow 0$

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 $find(2) \Rightarrow 5$

(DFS)

return hashmap[node]

copy.neighbors.append(dfs(next_node))

copy = Node(node.val)

hashmap[node] = copy

return copy