

```
1
    class DisjunctiveSet:
2
        parent = dict()
                                                                 #stores parent for every node
3
    Class Node:
4
5
       children_heights = []
6
        parent
        key
8
9
    def find(x, height):
10
11
        max_height = 0
12
        if len(children_heights):
13
            max_height = max(children_heights) + 1
                                                                #plus self
14
15
        if (parent[x] != x): #while not root
16
17
18
            parent[x].children_heights.append(max_height)
                                                                #apends height of this node
19
            parent[x], max_height = find(parent[x], height);
                                                                #recursevly iterates till root
20
21
        return parent[x], max_height;
```