1) Write following functions body. A nested dictionary is passed as parameter. You need to print all keys with their depth.

```
Sample Input:
```

key11

key2 1

key3 2

key4 2

key5 3

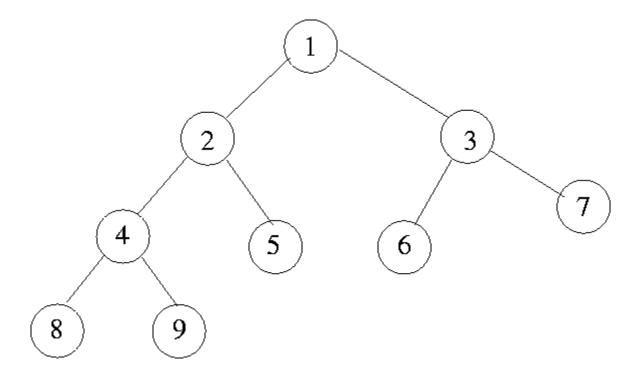
def print_depth(data):

Write function body

You may write additional function.

2) Write following functions body. 2 Nodes are passed as parameter. You need to find Least Common Ancestor and print its value. Node structure are as following:

```
class Node{
     value;
     parent;
}
```



Ancestor Definition:

- 1. Any node falls under parent chain till root node.
- 2. A node is ancestor of itself.

For example: if we consider Node 7 it's ancestors will be 1, 3, and 7.

All nodes values are unique for this tree.

You function needs to find least common ancestor (closest common ancestor).

def lca(node1, node2):

Write function body

You may write additional function.

Explain Algorithm Complexity (Runtime) and Memory requirement for your solution.