

Generic tree

Problem

Submissions

Leaderboard

Discussions

Given a generic tree, find and return the sum of all nodes present in the given tree and print as Level Order.

Input Format

The first line of input contains data of the nodes of the tree in level order form. The order is: data for root node, number of children to root node, data of each of child nodes and so on and so forth for each node. The data of the nodes of the tree is separated by space.

Output Format

The first and only line of output prints the sum of all nodes of the given generic tree and print as Level Order..

Sample Input 0

```
10 3 20 30 40 2 40 50 0 0 0 0
```

Sample Output 0

190

10 20 30 40 40 50



Contest ends in 23 days

Submissions: 13

Max Score: 10

Difficulty: Medium

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Java 7



```
1 ▼import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 ▼class node{
8     int data;
9     ArrayList<node> next;
10 ▼    node(int data){
11         this.data=data;
12         this.next=new ArrayList<>();
13     }
14 }
15
16 ▼public class Solution {
17
```

```
18
19 ▼ static int sum(node root){
20     int tot=root.data;
21 ▼   for(node temp:root.next){
22       tot+=sum(temp);
23   }
24   return tot;
25 }
26
27 ▼ static void disp(node root){
28     Queue<node> q=new LinkedList<>();
29     q.add(root);
30     System.out.print(root.data+" ");
31 ▼   while(!q.isEmpty()){
32       node e=q.poll();
33 ▼   for(int i=0;i<e.next.size();i++){
34       System.out.print(e.next.get(i).data+" ");
35       q.add(e.next.get(i));
36   }
37   }
38 }
39
40
41 ▼ public static void main(String[] args) {
42 ▼   /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should
be named Solution. */
43     Scanner sc=new Scanner(System.in);
44     Queue<node> q=new LinkedList<>();
45     int val=sc.nextInt();
46     int c=0;
47     node nn=new node(val);
48     node root=nn;
49     q.add(root);
50     node e;
51 ▼   while(!q.isEmpty()){
52       c=sc.nextInt();
53       e=q.poll();
54 ▼   for(int i=0;i<c;i++){
```

```
55         val=sc.nextInt();
56         nn=new node(val);
57         e.next.add(nn);
58         q.add(nn);
59     }
60 }
61 System.out.println(sum(root));
62 disp(root);
63 }
64 }
```

Line: 1 Col: 1

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