

h = 0, 2, 3 (node, vl)

C

1

2

3

4

100,0	12,1	14,1	16,2	18,2
20,0	22,1	24,1	26,2	28,2
30,1	32,1	34,2	36,2	38,2
40,1	42,1	44,2	46,2	48,2
50,1	52,1	54,2	56,2	58,2
60,1	62,1	64,2	66,2	68,2
70,1	72,1	74,2	76,2	78,2
80,1	82,1	84,2	86,2	88,2
90,1	92,1	94,2	96,2	98,2

List<List<Integer>> ans = new ArrayList<>();

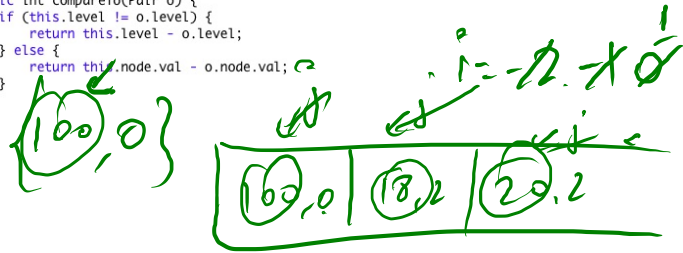
```
for (int i = min; i <= max; i++) {
    ArrayList<Pair> temp = map.get(i);
    Collections.sort(temp);
    ans.add(new ArrayList<>());
    for (int j = 0; j < temp.size(); j++) {
        ans.get(i-min).add(temp.get(j).node.val);
    }
}
return ans;
```

i - min

```
public class Pair implements Comparable<Pair> {
    TreeNode node;
    int level;

    Pair(TreeNode node, int level) {
        this.node = node;
        this.level = level;
    }

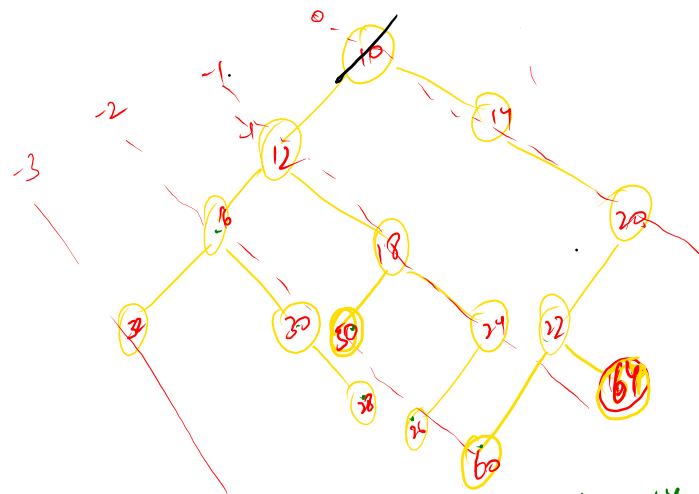
    @Override
    public int compareTo(Pair o) {
        if (this.level != o.level) {
            return this.level - o.level;
        } else {
            return this.node.val - o.node.val;
        }
    }
}
```



ans

0	1	2	3	4
16	12	100	14	22
	24	18	30	
	26	20	34	

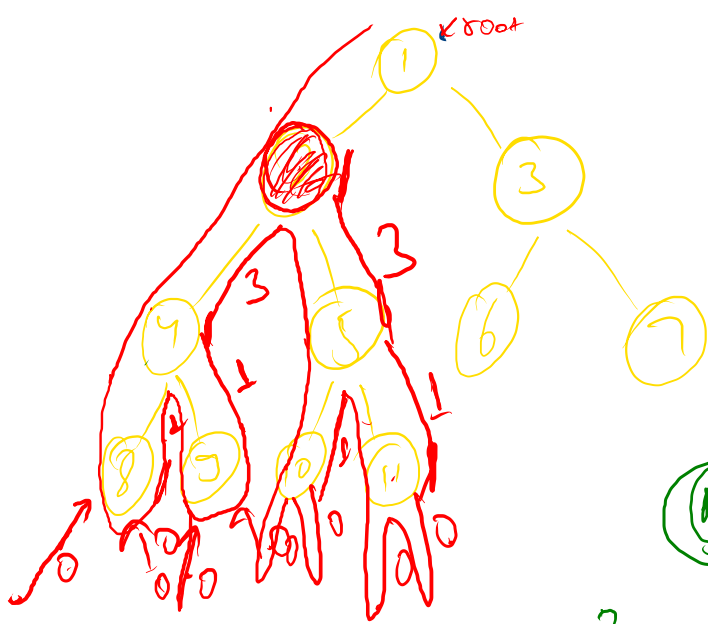
18
 16
~~12~~
 14



10, 0	12, 1	14, 0	20, 0	18, -2	24, 1	22, 1
22, -1	32, -3	30, -2	28, 2			
50, -2	26, 2	60, -2	64, -1			

10 14 20
 12 18 24 22 64
 16 30 28 50 26 60
 32

0	-	10, 14, 20	1
-1	-	12, 18, 24	
-2	-	16, 30, 28, 50, 26, 60	
-3	.	32	



red = n = 2
 ↑
 blue = y =

$$> \frac{n}{2} > \frac{11}{2} = 6$$

$PC > LC + RC + 1$

$LC = 3$

$RC = 3$

$PC = 4$

$4 > \frac{11}{2} \Rightarrow 6$

~~int left = 3~~
~~int right = 3~~

int traversal(node root) {
 if (root == null) {
 return 0;
 }

int left = traversal(root->left);
 int right = traversal(root->right);

if (n == root->val) {
 LC = left + 1;
 RC = right + 1;

return left + right + 1;