Day 23: Review+Binary Trees!

Welcome to Day 23! Review everything we've learned so far by making Tic Tac Toe from scratch with this video, or just jump right into the problem.

You are given a pointer *root* pointing to the root of a binary tree. You need to print the *level order* traversal of this tree. In level order traversal, we visit the nodes level by level from left to right.
For example:

```
    3
   / \
  5   2
 /\  /
1  4 6
```

For the above tree, the level order traversal is 3 -> 5 -> 2 -> 1 -> 4 -> 6.

HINT: A queue could be helpful.

The code for input/output is already handled in the editor. You only have to complete the function *levelOrder* given in the editor.

Good luck!

Input Format

First line contains *T*, the number of test cases. Next *T* lines contain an integer *data* to be added to the binary search tree.

Output Format

Print the values of the level order traversal separated by spaces.

Sample Input

```
6
3
5
4
7
2
1
```

Sample Output

```
3 2 5 1 4 7
```

Explanation

```
Level 1:      3
            /  \
Level 2:    2    5
```

We need to print the nodes level by level. We process each level from left to right.
Level Order Traversal: 3 -> 2 -> 5 -> 1 -> 4 -> 7