

# Day 23: BST Level-Order Traversal

## Objective

Today, we're going further with Binary Search Trees. Check out the [Tutorial](#) tab for learning materials and an instructional video!

## Task

A level-order traversal, also known as a breadth-first search, visits each level of a tree's nodes from left to right, top to bottom. You are given a pointer, *root*, pointing to the root of a binary search tree. Complete the *levelOrder* function provided in your editor so that it prints the level-order traversal of the binary search tree.

**Hint:** You'll find a queue helpful in completing this challenge.

## Input Format

The locked stub code in your editor reads the following inputs and assembles them into a BST:  
The first line contains an integer, *T* (the number of test cases).  
The *T* subsequent lines each contain an integer, *data*, denoting the value of an element that must be added to the BST.

## Output Format

Print the *data* value of each node in the tree's level-order traversal as a single line of *N* space-separated integers.

## Sample Input

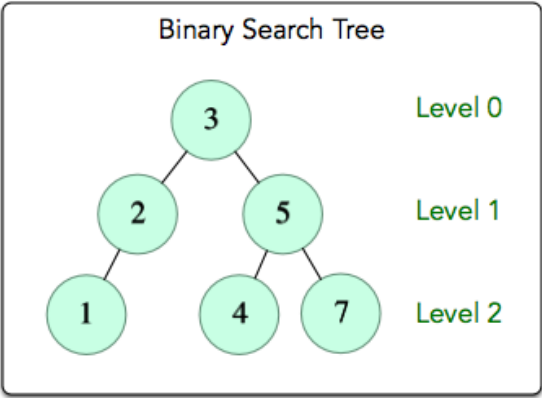
```
6
3
5
4
7
2
1
```

## Sample Output

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

## Explanation

The input forms the following binary search tree:



We traverse each level of the tree from the root downward, and we process the nodes at each level from left to right. The resulting level-order traversal is **3** → **2** → **5** → **1** → **4** → **7**, and we print these data values as a single line of space-separated integers.