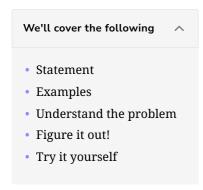
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Level Order Traversal of Binary Tree

Try to solve the Level Order Traversal of Binary Tree problem.



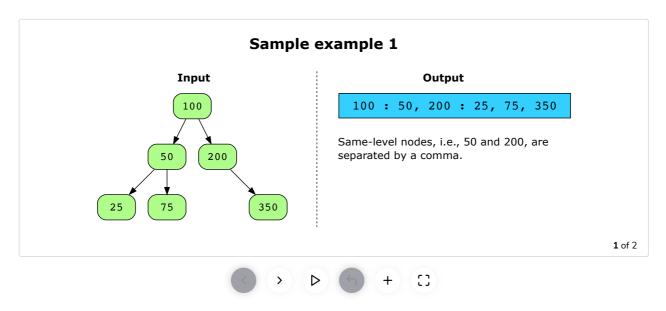
Statement

Given the root of a binary tree, display the values of its nodes while performing a level order traversal. Return the node values for all levels in a string separated by the character :. If the tree is empty, i.e., the number of nodes is 0, then return "None" as the output.

Constraints:

- The number of nodes in the tree is in the range [0, 2000].
- $-1000 \le$ Node.data ≤ 1000

Examples



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Level Order Traversal of Binary Tree

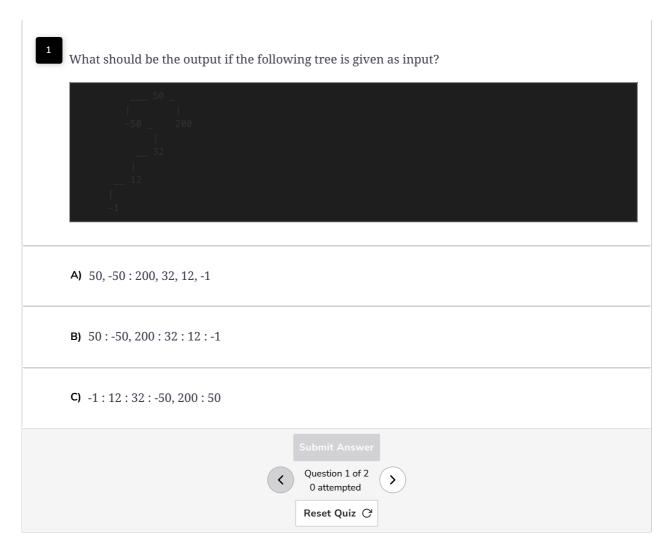
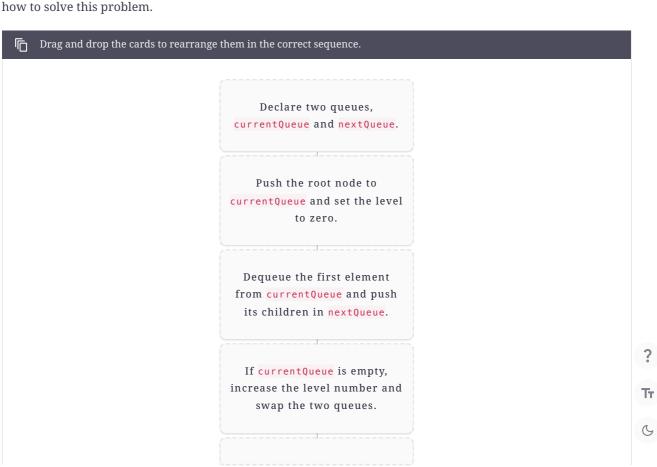


Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

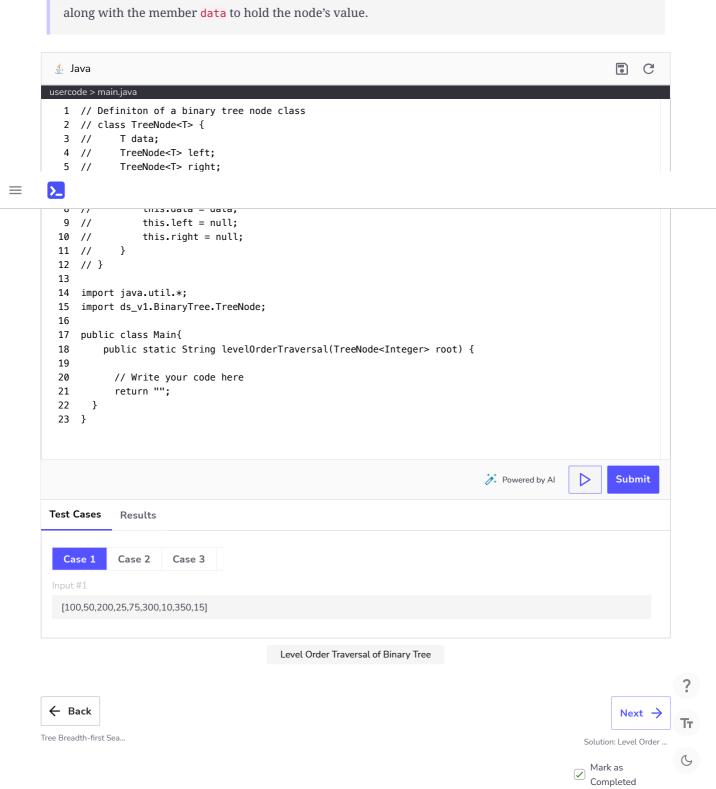




Try it yourself

Implement your solution in the following coding playground.

Note: The binary tree node's class has members left and right to store references to other nodes, along with the member data to hold the node's value.



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