Flatten Binary Tree to Linked List

Try to solve the Flatten Binary Tree to Linked List problem.



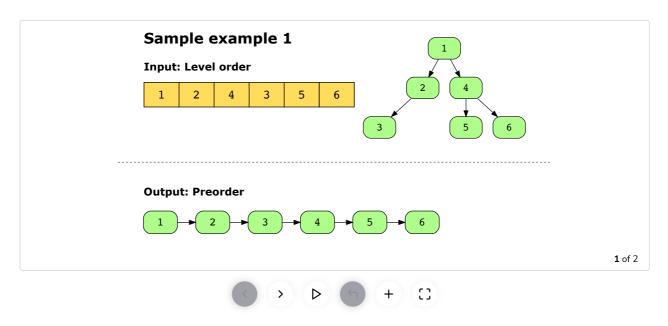
Statement

Given the root of a binary tree, the task is to flatten the tree into a linked list using the same TreeNode class. The left child pointer of each node in the linked list should always be NULL, and the right child pointer should point to the next node in the linked list. The nodes in the linked list should be in the same order as that of the preorder traversal of the given binary tree.

Constraints:

- $-100 \le$ Node.data ≤ 100 .
- The tree contains nodes in the range [1, 500].

Examples



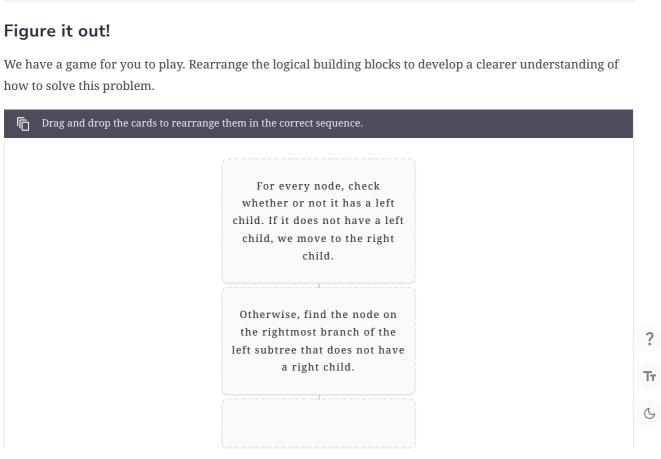
Understand the problem

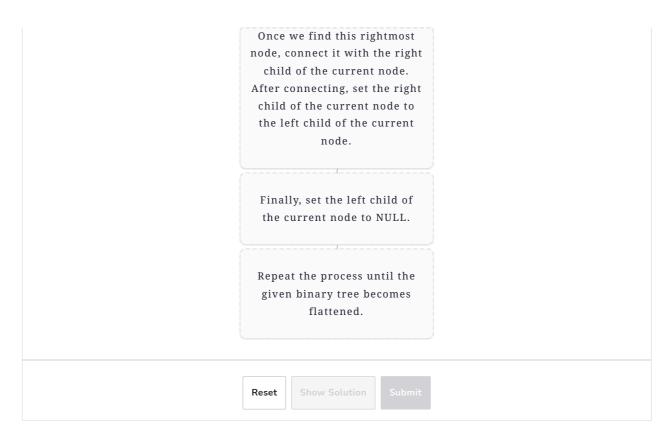
Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if ? you're solving the correct problem:

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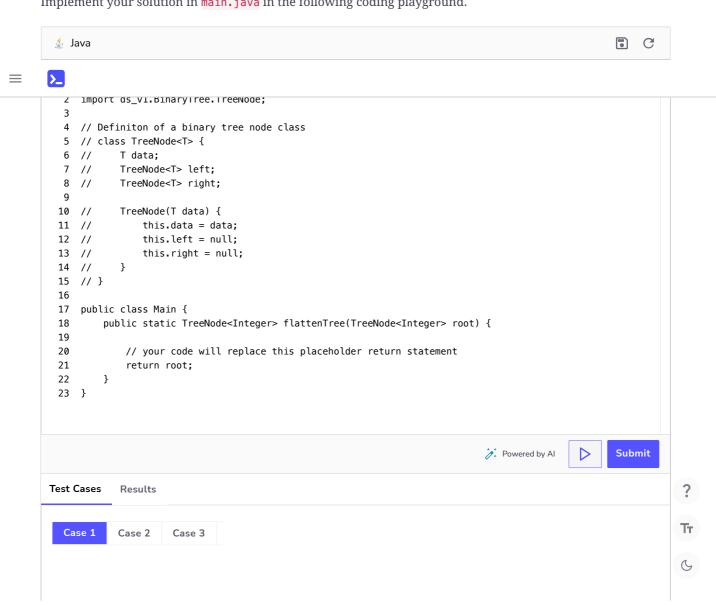
Flatten Binary Tree to Linked List Choose the correct flattened linked list for the given binary tree: A) $3 \rightarrow 2 \rightarrow 17 \rightarrow 1 \rightarrow 4 \rightarrow 19 \rightarrow 5$ **B)** $3 \to 2 \to 1 \to 4 \to 17 \to 19 \to 5$ C) $3 \rightarrow 2 \rightarrow 1 \rightarrow 4 \rightarrow 19 \rightarrow 17 \rightarrow 5$ **D)** $17 \to 19 \to 5 \to 3 \to 2 \to 1 \to 4$ Question 1 of 2 0 attempted Reset Quiz C





Try it yourself

Implement your solution in main.java in the following coding playground.



[3,2,17,1,4,19,5]

Flatten Binary Tree to Linked List



Next \rightarrow

Tree Depth-first Searc...

Solution: Flatten Binar...

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