

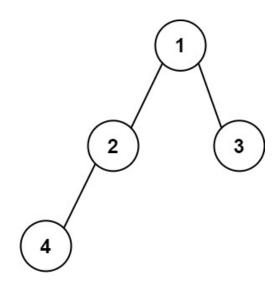
## 606. Construct String from Binary Tree

Medium Topics Companies

Given the root node of a binary tree, your task is to create a string representation of the tree following a specific set of formatting rules. The

- Node Representation: Each node in the tree should be represented by its integer value.
- Parentheses for Children: If a node has at least one child (either left or right), its children should be represented inside parentheses. Spe
  - If a node has a left child, the value of the left child should be enclosed in parentheses immediately following the node's value.
  - If a node has a right child, the value of the right child should also be enclosed in parentheses. The parentheses for the right child should
- Omitting Empty Parentheses: Any empty parentheses pairs (i.e., ()) should be omitted from the final string representation of the tree, In summary, empty parentheses pairs should be omitted when a node has only a left child or no children. However, when a node has a rice

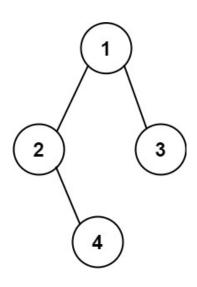
## Example 1:



Input: root = [1,2,3,4]
Output: "1(2(4))(3)"

**Explanation:** Originally, it needs to be "1(2(4)())(3()())", but you need to omit all the empty parer

## Example 2:



Input: root = [1,2,3,null,4]
Output: "1(2()(4))(3)"

Explanation: Almost the same as the first example, except the () after 2 is necessary to indicate t

## Constraints:

• The number of nodes in the tree is in the range [1] 1041