

# 536. Construct Binary Tree from String Premium

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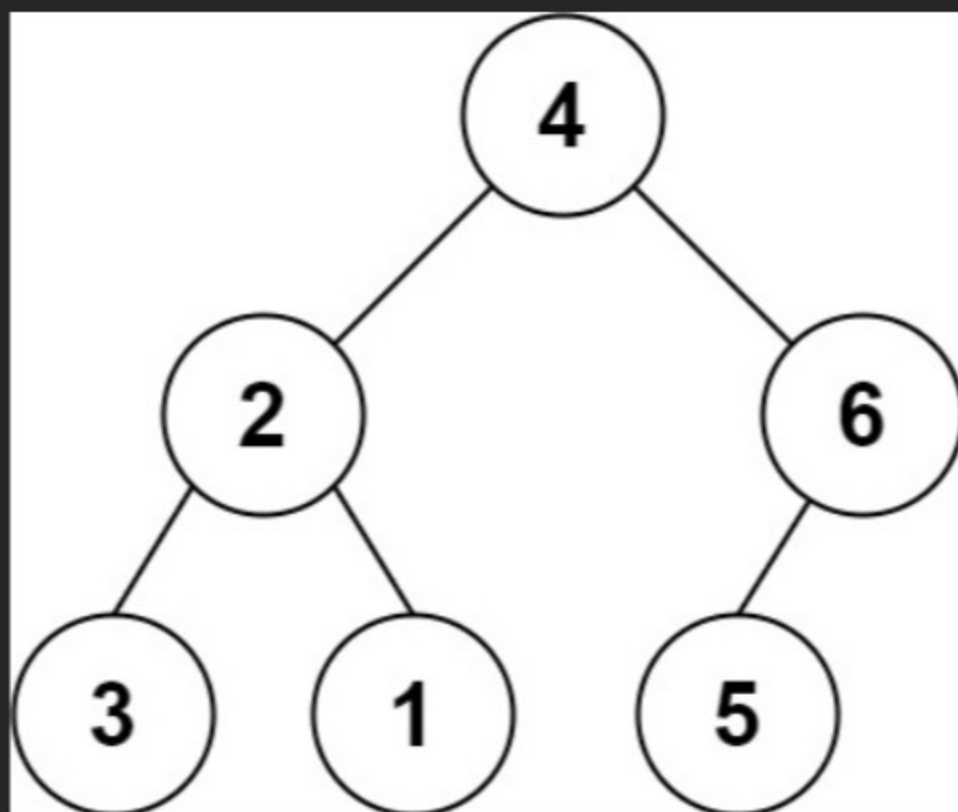
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You need to construct a binary tree from a string consisting of parenthesis and integers.

The whole input represents a binary tree. It contains an integer followed by zero, one or two pairs of parenthesis. The integer represents the root's value and a pair of parenthesis contains a child binary tree with the same structure.

You always start to construct the **left** child node of the parent first if it exists.

## Example 1:



**Input:** `s = "4(2(3)(1))(6(5))"`

**Output:** `[4,2,6,3,1,5]`

## Example 2:

**Input:** `s = "4(2(3)(1))(6(5)(7))"`

**Output:** `[4,2,6,3,1,5,7]`

## Example 3:

**Input:** `s = "-4(2(3)(1))(6(5)(7))"`

**Output:** `[-4,2,6,3,1,5,7]`

## Constraints:

- `0 <= s.length <= 3 * 104`
- `s` consists of digits, `'('`, `')'`, and `'-'` only.

Seen this question in a real interview before? 1/5

Yes

No

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