

String - LeetCode

Generate Parentheses - LeetCode

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leetcode.com/problems/generate-parentheses/?envType=problem-list-v2&envId=string

String

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Description

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## 22. Generate Parentheses

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Given  $n$  pairs of parentheses, write a function to generate all combinations of well-formed parentheses.

**Example 1:**

Input:  $n = 3$   
Output: ["((()))", "(()())", "(())()", "()(())", "()()()"]

**Example 2:**

Input:  $n = 1$   
Output: ["()"]

**Constraints:**

- $1 \leq n \leq 8$

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Code

Java

Auto

```
1 class Solution {
2     public List<String> generateParenthesis(int n) {
3         List<String> res = new ArrayList<String>();
4         recurse(res, 0, 0, "", n);
5         return res;
6     }
7
8     public void recurse(List<String> res, int left, int right, String s, int n) {
9         if (s.length() == n * 2) {
10             res.add(s);
11             return;
12         }
13
14         if (left < n) {
15             recurse(res, left + 1, right, s + "(", n);
16         }
17     }
18 }
```

Saved

Ln 22, Col 2

Testcase

Test Result

Accepted

Runtime: 0 ms

Case 1 Case 2

Input

n = 3