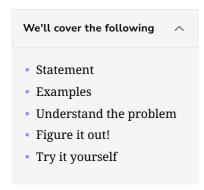
Minimum Remove to Make Valid Parentheses

Try to solve the Minimum Remove to Make Valid Parentheses problem.



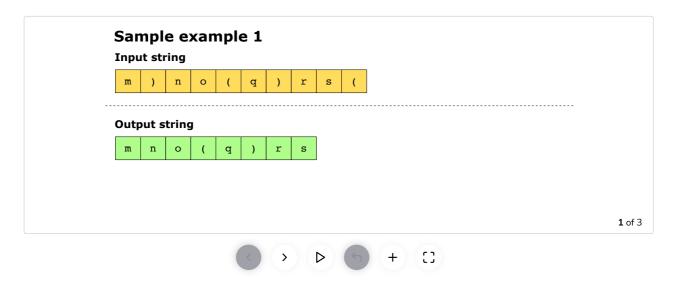
Statement

Given a string, s, that may have <u>matched</u> and <u>unmatched</u> parentheses, remove the minimum number of parentheses so that the resulting string represents a valid parenthesization. For example, the string "a(b)" represents a valid parenthesization while the string "a(b" doesn't, since the opening parenthesis doesn't have any corresponding closing parenthesis.

Constraints:

- $1 \leq$ s.length $\leq 10^5$
- s[i] is either an opening parenthesis (, a closing parenthesiss), or a lowercase English letter.

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:

Minimum Remove to Make Valid Parentheses

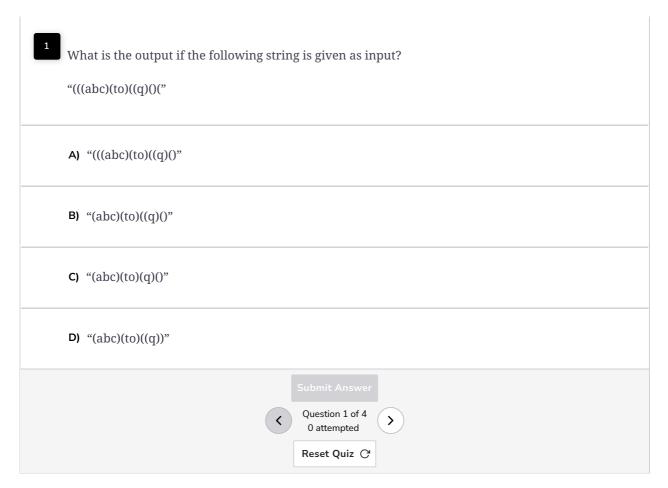
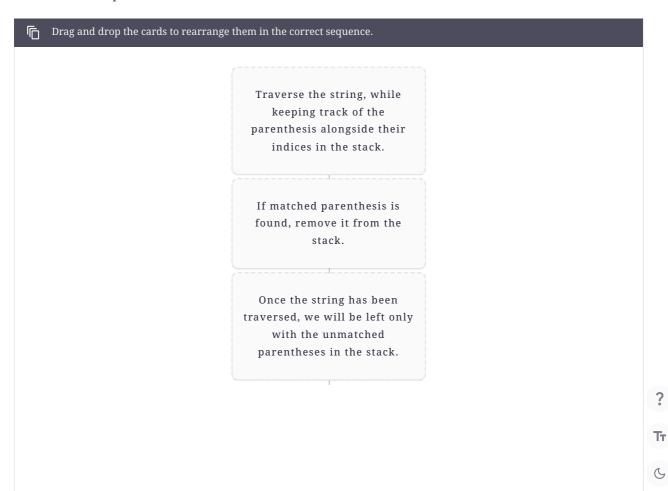


Figure it out!

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



Create a new string without including the characters at indices still present in the stack.

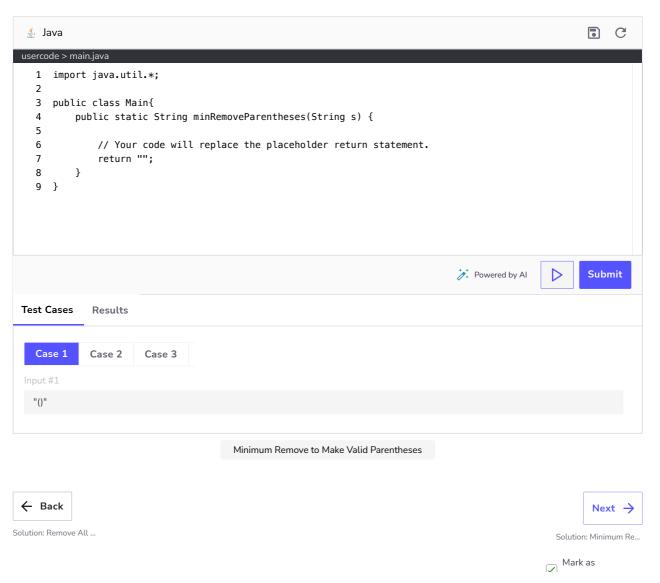
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Try it yourself

Implement your solution in the following coding playground:



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