

Minimum Remove to Make Valid Parentheses

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

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

Statement

Given a string, `s`, that may have matched and unmatched 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 parenthesis) , or a lowercase English letter.

Examples

Sample example 1

Input string

m)	n	o	(q)	r	s	(
---	---	---	---	---	---	---	---	---	---

Output string

m	n	o	(q)	r	s
---	---	---	---	---	---	---	---




1 of 3



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



1

What is the output if the following string is given as input?

“(((abc)(to)((q)()”

A) “(((abc)(to)((q)()”

B) “(abc)(to)((q)()”

C) “(abc)(to)(q)()”

D) “(abc)(to)((q))”

Submit Answer



Question 1 of 4
0 attempted



Reset Quiz ↻

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.



Drag and drop the cards to rearrange them in the correct sequence.

Traverse the string, while
keeping track of the
parenthesis alongside their
indices in the stack.

If matched parenthesis is
found, remove it from the
stack.

Once the string has been
traversed, we will be left only
with the unmatched
parentheses in the stack.



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



Reset

Show Solution

Submit

Try it yourself

Implement your solution in the following coding playground:

Java

usercode > main.java

```
1 import java.util.*;
2
3 public class Main{
4     public static String minRemoveParentheses(String s) {
5
6         // Your code will replace the placeholder return statement.
7         return "";
8     }
9 }
```

Powered by AI **Submit**

Test Cases Results

Case 1 Case 2 Case 3

Input #1

"()"

Minimum Remove to Make Valid Parentheses

← Back

Next →

Solution: Remove All ...

Solution: Minimum Re...

Mark as

