

Valid Parentheses

Try to solve the Valid Parentheses problem.

We'll cover the following ^

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

Statement

Given a string that may consist of opening and closing parentheses, your task is to check if the string contains valid parenthesization or not.

The conditions to validate are:

1. Every opening parenthesis should be closed by the same kind of parenthesis. So, `{}` and `[()]` strings are invalid.
2. Every opening parenthesis must be closed in the correct order. So, `) (` and `()()` are invalid.

Constraints:

- $1 \leq \text{string.length} \leq 10^4$
- The string will only contain the following characters: `(,), [,], {` and `}`.

Examples

Sample example 1

Input

```
()[[{()}] ]
```

Output

```
TRUE
```

1 of 4



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:

Valid Parentheses

1

Are the parentheses in the following string valid or not?

“O{}[]”

A) Not valid

B) Valid

Submit Answer



Question 1 of 2
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.

Note: As an additional challenge, we have intentionally hidden the solution to this puzzle.



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

After complete traversal, if the stack is empty then the parentheses are valid. If the stack is not empty, then the parentheses are not valid.

If the current character is an opening parenthesis, push it onto the stack.

Else, if the current character is a closing parenthesis and it corresponds to the opening parenthesis on the top of the stack, then pop from the stack.



Reset

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Try it yourself

Implement your solution in the following coding playground.

Note: We have left the solution to this challenge as an exercise for you. You may try to translate the



Java

usercode > main.java

```
1 import java.util.*;
2 public class Main{
3     public static boolean isValid(String s) {
4
5         // Write your code here
6
7         return false;
8     }
9 }
```

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Test Cases

Results

Case 1

Case 2

Case 3

Input #1

"{}{}{}{}"

Valid Parentheses

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Next →

Solution: Flatten Nest...

Tree Depth-first Search...

☒ Mark as Completed

