



## DAILY PROGRAMMING CHALLENGE



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### Valid Parentheses with Multiple Types

You are given a string `s` consisting of different types of parentheses: `()`, `{}`, and `[]`. Your task is to determine whether the given string is valid.

A string is considered valid if:

1. Every opening bracket has a corresponding closing bracket of the same type.
2. The brackets are closed in the correct order. This means that a closing bracket must close the most recent unmatched opening bracket.

#### Input:

A string `s` consisting of characters `(, ), {, }, [, and ]`.

#### Output:

- Return `true` if the string is valid.
- Return `false` if the string is invalid.

#### Examples:

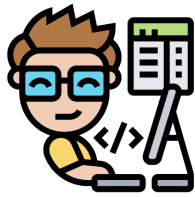
- Example 1  
Input: `s = "()"`  
Output: `true`  
Explanation: The string contains only one pair of valid parentheses.

#### Constraints:

- $0 \leq s.length \leq 10^4$
- The string `s` contains only the characters `()[]{}.`

#### Test Cases:

1. Input: `s = "()"`  
Output: `true`
2. Input: `s = "([])"`  
Output: `false`
3. Input: `s = "[{()}]"`  
Output: `true`
4. Input: `s = ""`  
Output: `true`



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5. Input: `s = "{}"`  
Output: false

**Edge Cases:**

1. Empty string: If the input string is empty, the output should be true since there are no parentheses to match.
2. Odd length string: If the string has an odd number of characters, it cannot be valid and should return false.
3. Unmatched closing brackets: If the string starts with a closing bracket, it is invalid.