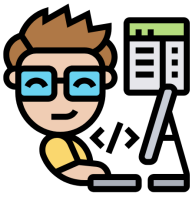

DAILY PROGRAMMING
CHALLENGE

WISDOM SPROUTS
IT Training Hub

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 ≤ s.length ≤ 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

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.