



## ***Task(16.1)***

### ***Stack leetcode problem***

Given a string *s* containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.
3. Every close bracket has a corresponding open bracket of the same type.

#### **Examples:**

- **Example 1:**
- **Input:** *s* = "()"
- **Output:** true
- **Example 2:**
- **Input:** *s* = "()[]{}"
- **Output:** true
- **Example 3:**
- **Input:** *s* = "]"
- **Output:** false
- **Example 4:**
- **Input:** *s* = "([])"
- **Output:** true

#### **Constraints:**

- $1 \leq s.length \leq 104$
- *s* consists of parentheses only '()[]{'.

*Link to the problem:*

<https://leetcode.com/problems/valid-parentheses/description/?envType=problem-list-v2&envId=stack>

# Thank You