

**STRING**

# Problem – Valid Parentheses

Easy



LeetCode

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## Problem Statement

- Given a string ...

# Solution – Valid Parentheses

Easy



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## Solution

- Explain...

# Code – Valid Parentheses

Easy



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## Code

```
bool isValid(string s) {  
    // stack (LIFO)  
    std::stack<char> brackets;  
    // O(n)  
    for (int i = 0; i < s.size(); ++i) {  
        char bracket = s[i];  
        if (bracket == '(' || bracket == '[' || bracket == '{') {  
            brackets.push(bracket);  
        } else {  
            if (brackets.size() == 0) return false;  
            char lastBracket = brackets.top();  
            if (bracket == ')' && lastBracket != '(') return false;  
            if (bracket == '}' && lastBracket != '{') return false;  
            if (bracket == ']' && lastBracket != '[') return false;  
            brackets.pop();  
        }  
    }  
    // all brackets must be closed  
    return brackets.size() == 0;  
}
```