Problem 20: Valid Parentheses

Problem Information

Difficulty: Easy
Acceptance Rate: 43.20%
Paid Only: No
Tags: String, Stack

Problem Description

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.

Example 1:

Input: s = "()"

Output: true

Example 2:

Input: s = "()[]{}"

Output: true

Example 3:

Input: s = "(]"

Output: false

Example 4:

Input: s = "([])"

Output: true

Example 5:

Input: s = "([)]"

Output: false

Constraints:

* `1 <= s.length <= 104` * `s` consists of parentheses only `'()[]{}'`.

Code Snippets

C++:

```cpp
class Solution {
public:
bool isValid(string s) {


}
};
```

Java:

```java
class Solution {
public boolean isValid(String s) {


}
}
```

Python3:

```python
class Solution:
    def isValid(self, s: str) -> bool:
```