

# 020. Valid Parentheses

## 020 Valid Parentheses

- Stack
- String

### Description

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

The brackets must close in the correct order, "()" and "()[]{}" are all valid but ")" and "([)]" are not.

### 1. Thought Line

(1) char to string

### 2. Stack

```
1 class Solution {
2 public:
3     bool isValid(string s) {
4         stack<char> stk;
5         for (auto &c:s){
6             string temp = ""; // for char to string
7             if (!stk.empty() &&
8                 (temp+stk.top()+c=="()" || temp+stk.top()+c=="{}" || temp+stk.top()+c=="[]"))
9                 stk.pop();
10            else stk.push(c);
11        }
12        return stk.empty()?true:false;
13    }
14 };
```