

Description

Solution

Discuss (999+)

Submissions

20. Valid Parentheses

Easy

10980

459

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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.

Example 1:

Input: `s = "()"`

Output: `true`

Example 2:

Input: `s = "([)]"`

Output: `true`

Example 3:

Input: `s = "("`

Output: `false`

Constraints:

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

Accepted 1,930,853

Submissions 4,755,372

Seen this question in a real interview before?

Yes

No

Companies

Java

Autocomplete

```
1 class Solution {
2     public boolean isValid(String s) {
3
4         Stack<Character> stack = new Stack<>();
5         char[] charArray = s.toCharArray();
6         int size = charArray.length;
7
8         for(int i = 0; i < size; i++){
9             if(charArray[i] == '(')
10                 stack.push(')');
11             else if(charArray[i] == '{')
12                 stack.push('}');
13             else if(charArray[i] == '[')
14                 stack.push(']');
15             else if(stack.isEmpty() || stack.pop() != charArray[i])
16                 return false;
17         }
18
19         return stack.isEmpty();
20     }
21 }
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

"()"

Output

true

Diff

Expected

true