

LEETCODE SOLUTIONS - YOGESH MUNEEES

20. Valid Parentheses

Hint

Easy 21.4K 1.4K

Companies

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`

Solution:

```
class Solution:
    def isValid(self, s: str) -> bool:
        lst = []
        n = s[:]
        for i in s:
            if i == '(' and ')' in n:
                lst.append('(')
                s = s.replace('(', '')
            elif i == '[' and ']' in n:
                lst.append('[')
                s = s.replace('[', '')
            elif i == '{' and '}' in n:
                lst.append('{')
                s = s.replace('{', '')
            elif i == ')' or i == ']' or i == '}':
                if len(lst) == 0:
                    return False
                x = lst.pop()
                if i == x:
```

```
        s = s.replace(x, '')
    else:
        return False
    else:
        return False
    if len(s)>0 or len(lst)>0:
        return False
    return True
```