

# Problem 1003: Check If Word Is Valid After Substitutions

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 60.77%

**Paid Only:** No

**Tags:** String, Stack

## Problem Description

Given a string `s`, determine if it is \*\*valid\*\*.

A string `s` is \*\*valid\*\* if, starting with an empty string `t = ""`, you can \*\*transform\*\* `t` \*\*into\*\* `s` after performing the following operation \*\*any number of times\*\* :

\* Insert string `"abc"` into any position in `t`. More formally, `t` becomes `tleft + "abc" + tright`, where `t == tleft + tright`. Note that `tleft` and `tright` may be \*\*empty\*\*.

Return `true` \_if\_ `s` \_is a\*\*valid\*\* string, otherwise, return\_ `false`.

**Example 1:**

**Input:** s = "aabcbc" **Output:** true **Explanation:** "" -> "\_abc\_" -> "a \_abc\_ bc" Thus, "aabcbc" is valid.

**Example 2:**

**Input:** s = "abcabcababcc" **Output:** true **Explanation:** "" -> "\_abc\_" -> "abc \_abc\_ " -> "abcabc \_abc\_ " -> "abcabca \_abc\_ c" Thus, "abcabcababcc" is valid.

**Example 3:**

**Input:** s = "abccba" **Output:** false **Explanation:** It is impossible to get "abccba" using the operation.

**\*\*Constraints:\*\***

\* `1 <= s.length <= 2 \* 104` \* `s` consists of letters 'a', 'b', and 'c'

## Code Snippets

### C++:

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

### Java:

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

### Python3:

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