

Problem 1910: Remove All Occurrences of a Substring

Problem Information

Difficulty: Medium

Acceptance Rate: 78.33%

Paid Only: No

Tags: String, Stack, Simulation

Problem Description

Given two strings `s` and `part`, perform the following operation on `s` until **all** occurrences of the substring `part` are removed:

* Find the **leftmost** occurrence of the substring `part` and **remove** it from `s`.

Return `s` **_after removing all occurrences of_** `part`.

A **substring** is a contiguous sequence of characters in a string.

Example 1:

Input: s = "daabcbaabcbc", part = "abc" **Output:** "dab" **Explanation:** The following operations are done: - s = "da** _abc_** baabcbc", remove "abc" starting at index 2, so s = "dabaabcbc". - s = "daba** _abc_** bc", remove "abc" starting at index 4, so s = "dababc". - s = "dab** _abc_** ", remove "abc" starting at index 3, so s = "dab". Now s has no occurrences of "abc".

Example 2:

Input: s = "axxxxxyyyb", part = "xy" **Output:** "ab" **Explanation:** The following operations are done: - s = "axxx** _xy_** yyb", remove "xy" starting at index 4 so s = "axxxyyb". - s = "axx** _xy_** yyb", remove "xy" starting at index 3 so s = "axxyyb". - s = "ax** _xy_** yb", remove "xy" starting at index 2 so s = "axyb". - s = "a** _xy_** b", remove "xy" starting at index 1 so s = "ab". Now s has no occurrences of "xy".

****Constraints:****

* `1 <= s.length <= 1000` * `1 <= part.length <= 1000` * `s` and `part` consists of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    string removeOccurrences(string s, string part) {  
  
    }  
};
```

Java:

```
class Solution {  
    public String removeOccurrences(String s, String part) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def removeOccurrences(self, s: str, part: str) -> str:
```