

Problem 1209: Remove All Adjacent Duplicates in String II

Problem Information

Difficulty: Medium

Acceptance Rate: 60.46%

Paid Only: No

Tags: String, Stack

Problem Description

You are given a string `s` and an integer `k`, a `k` **duplicate removal** consists of choosing `k` adjacent and equal letters from `s` and removing them, causing the left and the right side of the deleted substring to concatenate together.

We repeatedly make `k` **duplicate removals** on `s` until we no longer can.

Return _the final string after all such duplicate removals have been made_. It is guaranteed that the answer is **unique**.

Example 1:

Input: s = "abcd", k = 2 **Output:** "abcd" **Explanation:** There's nothing to delete.

Example 2:

Input: s = "deeedbbcccbdaa", k = 3 **Output:** "aa" **Explanation:** First delete "eee" and "ccc", get "ddbbbdaa" Then delete "bbb", get "dddaa" Finally delete "ddd", get "aa"

Example 3:

Input: s = "pbbcggttciiippooaais", k = 2 **Output:** "ps"

Constraints:

`* `1 <= s.length <= 105` * `2 <= k <= 104` * `s` only contains lowercase English letters.`

Code Snippets

C++:

```
class Solution {  
public:  
    string removeDuplicates(string s, int k) {  
  
    }  
};
```

Java:

```
class Solution {  
public String removeDuplicates(String s, int k) {  
  
}  
}
```

Python3:

```
class Solution:  
    def removeDuplicates(self, s: str, k: int) -> str:
```