# 1209. Remove All Adjacent Duplicates in String II

## 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 <= 10^5`
- `2 <= k <= 10^4`
- `s` only contains lowercase English letters.