

# Problem 1216: Valid Palindrome III

## Problem Information

**Difficulty:** Hard

**Acceptance Rate:** 49.11%

**Paid Only:** Yes

**Tags:** String, Dynamic Programming

## Problem Description

Given a string `s` and an integer `k`, return `true` if `s` is a `k`\*\*-palindrome\*\*.

A string is `k`\*\*-palindrome\*\* if it can be transformed into a palindrome by removing at most `k` characters from it.

**Example 1:**

**Input:** s = "abcdeca", k = 2 **Output:** true **Explanation:** Remove 'b' and 'e' characters.

**Example 2:**

**Input:** s = "abbababa", k = 1 **Output:** true

**Constraints:**

\* `1 <= s.length <= 1000` \* `s` consists of only lowercase English letters. \* `1 <= k <= s.length`

## Code Snippets

**C++:**

```
class Solution {
public:
    bool isValidPalindrome(string s, int k) {
```

```
}
```

```
};
```

**Java:**

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

**Python3:**

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