

1216. Valid Palindrome III Premium

Hard

Topics

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Hint

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`

Seen this question in a real interview before? 1/5

Yes

No

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Hint 1

Can you reduce this problem to a classic problem?

Hint 2

The problem is equivalent to finding any palindromic subsequence of length at least N-K where N is the length of the string.

Hint 3

Try to find the longest palindromic subsequence.

Hint 4

Use DP to do that.

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