1682. Longest Palindromic Subsequence II Premium

Medium   🏷 Topics   💡 Hint

A subsequence of a string s is considered a **good palindromic subsequence** if:

- It is a subsequence of s.

- It is a palindrome (has the same value if reversed).

- It has an **even** length.

- No two consecutive characters are equal, except the two middle ones.

For example, if `s = "abcabcabb"`, then `"abba"` is considered a **good palindromic subsequence**, while `"bcb"` (not even length) and `"bbbb"` (has equal consecutive characters) are not.

Given a string s, return *the* **length** *of the* **longest good palindromic subsequence** *in* s.

Example 1:

```
Input: s = "bbabab"
Output: 4
Explanation: The longest good palindromic subsequence of s is "baab".
```

Example 2:

```
Input: s = "dcbccacdb"
Output: 4
Explanation: The longest good palindromic subsequence of s is "dccd".
```

Constraints:

- `1 <= s.length <= 250`

- s consists of lowercase English letters.

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

Yes   No

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    String   Dynamic Programming

💡 Hint 1 ⌃

As with any good dp problem that uses palindromes, try building the palindrome from the edges

💡 Hint 2 ⌃

The prime point is to check that no two adjacent characters are equal, so save the past character while building the palindrome.

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