

Problem 516: Longest Palindromic Subsequence

Problem Information

Difficulty: Medium

Acceptance Rate: 64.78%

Paid Only: No

Tags: String, Dynamic Programming

Problem Description

Given a string `s`, find _the longest palindromic**subsequence** 's length in_ `s`.

A **subsequence** is a sequence that can be derived from another sequence by deleting some or no elements without changing the order of the remaining elements.

Example 1:

Input: s = "bbbab" **Output:** 4 **Explanation:** One possible longest palindromic subsequence is "bbbb".

Example 2:

Input: s = "cbbd" **Output:** 2 **Explanation:** One possible longest palindromic subsequence is "bb".

Constraints:

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

Code Snippets

C++:

```
class Solution {  
public:  
    int longestPalindromeSubseq(string s) {  
  
    }  
};
```

Java:

```
class Solution {  
public int longestPalindromeSubseq(String s) {  
  
}  
}
```

Python3:

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