Given a string s, find the longest palindromic subsequence's length in s. You may assume that the maximum length of s is 1000.

**Example 1:**  
Input:

"bbbab"

Output:

4

One possible longest palindromic subsequence is "bbbb".

**Example 2:**  
Input:

"cbbd"

Output:

2

One possible longest palindromic subsequence is "bb".