





Longest Palindromic Subsequence □

Difficulty: Medium Accuracy: 56.57% Submissions: 105K+ Points: 4

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

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

A palindromic sequence is a sequence that reads the same forward and backward.

Examples:

Input: s = "bbabcbcab"

Output: 7

Explanation: Subsequence "babcbab" is the longest subsequence which is also a palindrome.

Input: s = "abcd"

Output: 1

Explanation: "a", "b", "c" and "d" are palindromic and all have a length 1.

Input: s = "agbdba"

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 Java (1.8) -
21 class Solution {
        public int longestPalinSubseq(String s) {
            int n = s.length();
            int[] curr = new int[n];
            int[] prev = new int[n];
            for(int i = n - 1; i \ge 0; --i){
                curr[i] = 1;
                for(int j = i + 1; j < n; ++j){
                    if(s.charAt(i) == s.charAt(j)){
                        curr[j] = prev[j -1] + 2;
                    }else{
                        curr[j] = Math.max(prev[j], curr[j - 1]);
                prev = curr.clone();
            return curr[n - 1];
```