**Problem & code :** [**https://www.interviewbit.com/problems/longest-palindromic-subsequence/**](https://www.interviewbit.com/problems/longest-palindromic-subsequence/)

**Approach :**

dp[l][r] = 2 + dp[l+1][r-1] , **if s[l]==s[r]**

= max(dp[l+1][r],dp[l][r-1]) ; **otherwise**