Started on	Thursday, 9 October 2025, 8:08 AM
State	Finished
Completed on	Thursday, 9 October 2025, 8:18 AM
Time taken	10 mins 22 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

Question 1 | Correct Mark 1.00 out of 1.00

Given two strings find the length of the common longest subsequence(need not be contiguous) between the two.

Example:

s1: ggtabe

s2: tgatasb

s1 ag**gta**k

 \mathbf{g} \mathbf{g} \mathbf{x} \mathbf{t} \mathbf{x} \mathbf{a} \mathbf{y} \mathbf{b}

The length is 4

Solveing it using Dynamic Programming

For example:

Input	Result
aab	2
azb	

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    #include<string.h>
    int main(){
 3 ₹
        char s1[100],s2[100];
4
 5
        int dp[100][100];
 6
        int m,n;
 7
        scanf("%s",s1);
        scanf("%s",s2);
 8
        m=strlen(s1);
9
10
        n=strlen(s2);
11 •
        for(int i=0;i<=m;i++){</pre>
             for(int j=0;j<=n;j++){
12
13
                 if(i==0||j==0)
14
                     dp[i][j]=0;
15
                 else if (s1[i-1]==s2[j-1])
16
                     dp[i][j]=1+dp[i-1][j-1];
17
                 else
18
                     dp[i][j] = (dp[i-1][j] > dp[i][j-1])?dp[i-1][j]:dp[i][j-1];
19
20
        printf("%d",dp[m][n]);
21
22
```

	Input	Expected	Got	
	aab azb	2	2	~

723, 10.39 FW					
	Input	Expected	Got		
~	ABCD	4	4	~	
	ABCD				
Passed all tests! 🗸					
Correc	-+				
		ubmission: 1	1.00/1.	00.	