



Started on	Wednesday, 8 October 2025, 2:05 PM
State	Finished
Completed on	Wednesday, 8 October 2025, 2:34 PM
Time taken	29 mins 17 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	a	g	g	t	a	b	
s2	g	x	t	x	a	y	b

The length is 4

Solveing it using Dynamic Programming

For example:

Input	Result
aab	2
azb	

Answer: (penalty regime: 0 %)

```

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

	Input	Expected	Got	
✓	aab	2	2	✓
	azb			

	Input	Expected	Got	
✓	ABCD ABCD	4	4	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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