Started on	Thursday, 9 October 2025, 8:10 AM
State	Finished
Completed on	Thursday, 9 October 2025, 8:23 AM
Time taken	13 mins 28 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 azb	2

Answer: (penalty regime: 0 %)

```
1   #include<stdio.h>
2   #include<string.h>
```

```c
 3   int main()
 4 ▾ {
 5       char s1[100], s2[100];
 6       int dp[100][100];
 7       int m,n;
 8       scanf("%s",s1);
 9       scanf("%s",s2);
10       m=strlen(s1);
11       n=strlen(s2);
12       for(int i=0;i<=m;i++)
13 ▾     {
14           for(int j=0;j<=n;j++)
15 ▾         {
16               if(i==0||j==0)
17                   dp[i][j]=0;
18               else if(s1[i-1]==s2[j-1])
19                   dp[i][j]=1+dp[i-1][j-1];
20               else
21                   dp[i][j]=(dp[i-1][j]>dp[i][j-1])?dp[i-1][j]:dp[i][j-1];
22           }
23       }
24       printf("%d",dp[m][n]);
25   }
```

	Input	Expected	Got	
✔	aab azb	2	2	✔
✔	ABCD ABCD	4	4	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.