



Started on	Wednesday, 15 October 2025, 9:16 AM
State	Finished
Completed on	Wednesday, 15 October 2025, 9:18 AM
Time taken	1 min 34 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
4  int max(int a, int b) {
5      return (a > b) ? a : b;
6  }
7
8  int main() {
9      char s1[1000], s2[1000];
10     scanf("%s", s1);
11     scanf("%s", s2);
12
13     int m = strlen(s1);
14     int n = strlen(s2);
15     int dp[m + 1][n + 1];
16
17     for (int i = 0; i <= m; i++) {
18         for (int j = 0; j <= n; j++) {
19             if (i == 0 || j == 0)
20                 dp[i][j] = 0;
21             else if (s1[i - 1] == s2[j - 1])
22                 dp[i][j] = dp[i - 1][j - 1] + 1;
23             else
24                 dp[i][j] = max(dp[i - 1][j], dp[i][j - 1]);
25         }
26     }
27
28     printf("%d", dp[m][n]);
29     return 0;
30 }
31

```

	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.

[Back to Course](#)