



CHANDRU G S 2024-CSE ▾

C2

Started on	Thursday, 23 October 2025, 9:13 PM
State	Finished
Completed on	Sunday, 16 November 2025, 8:15 PM
Time taken	23 days 23 hours
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 main() {
5     char a[1001], b[1001];
6     scanf("%s %s", a, b);
7
8     int n = strlen(a), m = strlen(b);
9     int dp[n+1][m+1];
10
11     for (int i = 0; i <= n; i++)
12         for (int j = 0; j <= m; j++)
13             if (i == 0 || j == 0)
14                 dp[i][j] = 0;
15             else if (a[i-1] == b[j-1])
16                 dp[i][j] = dp[i-1][j-1] + 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[n][m]);
21     return 0;
22 }
23
```

	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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