

Started on Monday, 6 October 2025, 3:30 PM

State Finished

Completed on Monday, 6 October 2025, 3:55 PM

Time taken 24 mins 53 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: ggta**e**

s2: tgat**a**s**b**

s1	a	g	g	t	a	b	
s2	g	x	t	x	a	y	b

The length is 4

Solving 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 int les(char*A,char*B,int m,int n)
8 {
9     int arr[m+1][n+1];
10    for(int i=0;i<=m;i++)
11    {
12        for(int j=0;j<=n;j++)
13        {
14            if(i==0||j==0)
15            {
16                arr[i][j]=0;
17            }
18            else if(A[i-1]==B[j-1])
19            {
20                arr[i][j]=arr[i-1][j-1]+1;
21            }
22            else
23            {
24                arr[i][j]=max(arr[i-1][j],arr[i][j-1]);
25            }
26        }
27    }
28    return arr[m][n];
29
30}
31 int main(){
32     char A[100],B[100];
33     scanf("%s %s",A,B);
34     int m=strlen(A);
35     int n=strlen(B);
36     int result=les(A,B,m,n);
37     printf("%d\n",result);
38 }
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.