

ASK/VIEW DOUBT

SOLUTION

HINT

Problem

Result

Code : Edit Distance

Send Feedback

Given two strings s and t of lengths m and n respectively, find the Edit Distance between the strings. Edit Distance of two strings is minimum number of steps required to make one string equal to other. In order to do so you can perform following three operations only :

1. Delete a character

2. Replace a character with another one

3. Insert a character

Note - Strings don't contain spaces

Input Format :

Line 1 : String s

Line 2 : String t

Output Format :

Line 1 : Edit Distance value

Constraints

1<= m,n <= 10

Sample Input 1 :

abc

dc

Sample Output 1 :

2

1#include <iostream>

2#include <vector>

3using namespace std;

4

5int editDistance(string s1, string s2){

6

7/* Don't write main().

8* Don't read input, it is passed as function argument.

9* Return output and don't print it.

10* Taking input and printing output is handled automatically.

11*/

12

13//write your code here

14

15

16if(s1.empty() && s2.empty())

17return 0;

18

19if(s1.empty()){

20return s2.size();

21}

22if(s2.empty())

23return s1.size();

24

25

26int ans;

27if(s1[0]==s2[0]){

28ans = editDistance(s1.substr(1),s2.substr(1));

29}else{

30int a = editDistance(s1.substr(1),s2);

31int b = editDistance(s1,s2.substr(1));

32int c = editDistance(s1.substr(1),s2.substr(1));

33ans = min(a,min(b,c))+1;

34}

35

36return ans;

37

38

< PREVIOUS

> NEXT

CUSTOM INPUT

SUBMIT SOLUTION