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comments
tools
clusters
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Back to list

1

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SPOJ Problem Set (classical)

0

15208. Minimum Cost

8+1

Problem code: MC



Problem Statement :

Given two string **S** and **T**. you can delete a character from **S** with cost 15 and a Character **T** with cost 30. Your goal is to make the string equal (same). It is not mandatory to delete character .

For example : $S = \text{a5b}$ and $T = \text{2ab}$. Now , if we delete X from S and Y from T, then total cost = $15+30 = 45$. And S and T will become **ab**.

Another example : $S = \text{ab}$, $T = \text{cd}$, Now total cost = $15 + 15 + 30 + 30 = 90$.

Another example : $S = \text{abcd}$, $T = \text{acdb}$, Now total cost = $15 + 30 = 45$.

Input:

Input consists of pairs of lines. The first line of a pair contains the first string **S** and the second line contains the second string **T**. Each string is on a separate line and consists of at most 1,000 characters . The end of input occurs when the first sequence starts with an '#' character (without the quotes).

Output:

For each subsequent pair of input lines, output a line containing one integer number which the minimum cost to make the string equal (same).

Sample Input/Output:

Sample Input	Sample Output
axb	45
yab	90
ab	60
cd	45
ko	
p	
abcd	
acdb	
#	

Time for a new job?

Problem Setter: Shipu Ahamed , Dept. of CSE

Bangladesh University of Business and Technology (BUBT)

Added by: Shipu Ahamed
Date: 2013-06-15
Time limit: 1s
Source limit: 50000B
Memory limit: 1536MB
Cluster: Cube (Intel Pentium G860 3GHz)
Languages: All
Resource: BAPS

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Previous

1

2

Next >

2014-08-07 16:43:34 **Abhishek Gupta**
Well written :)

2014-07-13 13:05:05 **Neel Jinwala**
'#' can be a part of string. Well any possible character can be a part of string. Just for heads up!

2014-06-07 21:23:19 **Himanshu Sahu**
DP for beginners..

2014-03-14 23:18:48 **Prime virus**
nice one :)

2013-10-18 22:53:52 **Anant Kumar**
That moment when you get the idea and the hard question becomes piece of cake(in Ouditchya Sir's word). :)

Shipu : r8

Last edit: 2013-11-27 11:46:28

2013-10-18 22:53:52 **Codeblooded**
ya true SilentKiller ;)

2013-10-18 22:53:52 **Vijay**
Please tell me why I am getting a TLE (Submission ID: 9606099)

2013-10-18 22:53:52 **kunal keshwani**
ac:) good one...

2013-10-18 22:53:52 **Hasil Sharma**
really easy with python :) Best solution in python \m/ and working on it to make it better

Last edit: 2013-07-02 18:57:34

2013-10-18 22:53:52 **SilentKiller**
Input ends when first character of first string is '#' not with "##" Costed two WA
otherwise very easy

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