

## **SPOJ Problem Set (classical)**

### **6219. Edit distance**

#### **Problem code: EDIST**

You are given two strings, A and B. Answer, what is the smallest number of operations you need to transform A to B.

Operations are:

- 1) Delete one letter from one of strings
- 2) Insert one letter into one of strings
- 3) Replace one of letters from one of strings with another letter

Input

T - number of test cases

For each test case:

String A

String B

Both strings will contain only lowercase characters and they won't be longer than 2000 characters.

Output

For each test case, one line, minimum number of operations.

Example

Input:

1

FOOD

MONEY

Output:

4

You are given two strings, A and B. Answer, what is the smallest number of operations you need to transform A to B?

Operations are:

- 1) Delete one letter from one of strings
- 2) Insert one letter into one of strings
- 3) Replace one of letters from one of strings with another letter

**Input**

T - number of test cases

For each test case:

String A

String B

Both strings will contain only uppercase characters and they won't be longer than 2000 characters.

There will be 10 test cases in data set.

### **Output**

For each test case, one line, minimum number of operations.

### **Example**

#### **Input:**

1  
FOOD  
MONEY

#### **Output:**

4

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Added by: Mislav Balunović  
Date: 2010-02-28  
Time limit: 15s  
Source limit: 50000B  
Languages: All except: TECS  
Resource: Internet