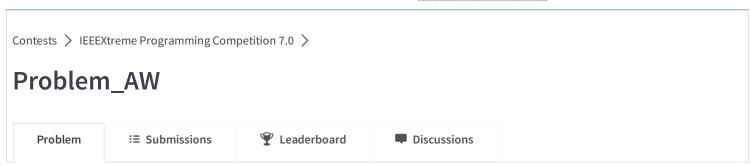


CHALLENGES

SUBMISSIONS LEADERBOARD



The contest is in progress. It ends 3 minutes from now.



A simple substitution cipher is a method of encrypting text by replacing each character with another character in the alphabet. Given a dictionary of words and an encrypted block of text, crack the cipher and print out the decrypted text. The encrypted text may use words that do not show up in the dictionary. All characters used in the encrypted text will appear at least once in a word that is in the dictionary.

Input:

The first line of the input is the number of words in the provided dictionary. Each word in the dictionary is on its own line following the number of words. After the dictionary a blank line will be inserted. All text following the blank line will be the encrypted text.

Output:

The decrypted sentence all in CAPS

<h3>Example 1: All words in dictionary</h3>

Sample Input:

2 case simple

AJWHPU GXAU

Sample Output1:

SIMPLE CASE

<h3>Example 2: Not all words in dictionary</h3> In the example below, the last word ABE is a proper name that is not found in the dictionary. However, in the encoded text all characters used in the name Abe ('a','b','e') are encoded in other known words in the dictionary.

Sample Input 2:

```
5
ball
belongs
red
the
to
SJI XIL TEMM TIMUBPK SU ETI
```

Sample Output 2:

THE RED BALL BELONGS TO ABE

Problem Author: IEEE

Suggest Edits



Use a custom test case

Upload Code as File

Compile & Test

Submit Code

This is a beta version. Join us on IRC at #hackerrank on freenode for hugs or bugs.

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