2013

Introduction

An eccentric scholar has been doing secretive research with grant money from a large corporate sponsor. Recently the scholar disappeared and no one has been able to locate him. The police and university officials believe there may be clues to what happened in his research notes, but in their present state the notes are difficult to read. It appears that the scholar had the odd habit of writing his research notes by either eliminating or rearranging the vowels in each word. Write a program to convert his notes to standard English spelling.

To complete this assignment, your program will need to read a file containing a dictionary of words. The name of this file is **wordlist.txt** and it is included with the other sample input files for this contest. The file contains one word per line, in alphabetical order.

Input

Each line of input contains a series of codes written in upper-case letters. Each code represents a single word. In some codes the vowels A, E, I, O, and U have been removed. In other codes all the vowels are present but scrambled. For all codes the consonants are all present and in the proper order. The input will not contain any punctuation marks. The input ends with a series of seven greater-than symbols.

```
TEH TSET SBJCTS AER GRWNG SSPCS NDA PSSMSTC
PRHPS EW SHULDO PEORMSI TEHM ECKA
SMTHNG AHS GOEN TRRBLY OWRNG
GLEEDOS AHS FOLEODD TEH NRCHMNT CNTEER IWTH DDLY NRTXN
>>>>>>>
```

Output

The program must decipher each code of the input and print the corresponding English word. If two or more English words match an input code, the program must print "?WORD1/WORD2/ETC?". If no words match an input code, the program must print the code with question marks, for example "?PSRGCHX?".

```
THE TEST SUBJECTS ?ARE/EAR/ERA? GROWING SUSPICIOUS AND PESSIMISTIC
PERHAPS WE SHOULD PROMISE THEM CAKE
?SMOOTHING/SOMETHING? HAS GONE TERRIBLY WRONG
?GLEEDOS? HAS FLOODED THE ENRICHMENT ?CENTER/CENTRE? WITH ?DEADLY/ODDLY? NEUROTOXIN
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