

## 1C – Rövarspråket

In Sweden, there is a simple child's game similar to Pig Latin called Rövarspråket (Robbers Language). In the INF version of Rövarspråket, every consonant is replaced by three letters, in the following order:

- the consonant itself;
- the vowel closest to the consonant in the alphabet (e.g., if the consonant is **d**, then the closest vowel is **e**), with the rule that if the consonant falls exactly between two vowels, then the vowel closer to the start of the alphabet will be chosen (e.g., if the consonant is **c**, then the closest vowel is **a**);
- the next consonant in the alphabet following the original consonant (e.g., if the consonant is **d**, then the next consonant is **f**) except if the original consonant is **z**, in which case the next consonant is **a** as well.

Vowels in the word remain the same. (Vowels are **a, e, i, o, u** and all other letters are consonants.) Write a program that translates a word from English into Rövarspråket.

### Input

The input consists of one word entirely composed of lower-case letters. There will be at least one letter and no more than 30 letters in this word.

### Output

Output the word as it would be translated into Rövarspråket on one line.

### Examples

Input:	Output:
joy	jikoyuz

Input:	Output:
ham	hijamon