



I Olympiad in Informatics Las Palmas

Competition – January, 27th, 2023

Encoder

Encoder

Maria and Alberto need to send messages to each other in such a way that it is difficult for onlookers to understand what they are talking about. They have come up with the idea that they could use a scrambler to help them encrypt the text. Their formula consists of replacing each consonant letter with two digits corresponding to the letter's position in the Spanish alphabet multiplied by three and each vowel with the vowel's position in the list of vowels in reverse order.

For example: the encoded word for Olympiad would look like: 023603395103051205

Help Maria and Alberto with a program that encodes each input word according to this formula, considering that the input can be in upper or lower case, the output must always be in lower case and, in case any character outside the alphabet is entered the program must print the word ERROR. The alphabet to work with is the Spanish alphabet: abcdefghijklmnnñopqrstuvwxyz. The list of vowels is: aeiou

Input and Output

The input is a single line that contains a word of any size.

The output line must show a word encoded in numbers according to the above explanation.



Examples

Example 1

Input:

a

Output:

05

Example 2

Input:

cha,cha,cha

Output:

ERROR

Example 3

Input:

verano

Output:

690457054202

Example 4

Input:

Y

Output:

78