## The Karaca's Encryption Algorithm

Your task is to write a function that encrypts a given string as input with these steps:

- 1. Reverse the input
- 2. Replace all vowels using the following chart: a = 0, e = 1, i = 2, o = 3, u = 4
- 3. Add "aca" to the end of the word

#### **Notes**

All inputs are strings, no uppercases and all output must be strings.

### Input

The first line of input contains a string S.

### Output

The first line contains the encoded string.

# Sample input Sample output

banana	0n0n0baca
karaca	0c0r0kaca
alpaca	0c0pl0aca