PROBLEM:

You have to use a “Dual Encryption Algorithm” to encrypt a given word. This algorithm uses two infinite strings of characters, first string consists only of vowels and second string consists of consonants only.

String 1: aeiouaeiouaeiouaeiou……

String 2: bcdfghjklmnpqrstvwxyzbcdfghjklmnpqrstvwxyz….

Following is the scheme for encryption:
1. Let c be any character to be encrypted.
2. Let k be the count of number of times c character occurred in text to be encrypted till now.
3. First find which of two infinite strings contains that character.
4. Then look for k^{th} occurrence of that character in that string.
5. Replace character c by corresponding character in second string.
For example encrypted text of "baax" will be "abho".

INPUT:

Each input will be a string of small Latin alphabets. Length of string should be less than 5*10^4.

OUTPUT:

For each input print the encrypted text.

EXAMPLE:

- Input:
  baax

  Output:
  abho

- Input:
  aaa

  Output:
  bhn

- Input:
  ccdeefe

  Output:
  eiicjop