Classification of characters (1)   **P42042_en**

Write a program that reads a letter, and that tells if it is an uppercase letter or a lowercase letter, and that also tells if it is a vowel or a consonant. Here, assume that the vowels are 'a', 'e', 'i', 'o' and 'u', and their corresponding uppercase letters.

Input

Input consists of a letter.

Output

Tell if the letter is uppercase or lowercase, and also tell if it is a vowel or a consonant. Follow the format of the examples.

Sample input 1	**Sample output 1**
E	uppercase
	vowel

Sample input 2	**Sample output 2**
H	uppercase
	consonant

Sample input 3	**Sample output 3**
g	lowercase
	consonant

Sample input 4	**Sample output 4**
u	lowercase
	vowel

Problem information

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