
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

E

Sample output 1

```
uppercase  
vowel
```

Sample input 2

H

Sample output 2

```
uppercase  
consonant
```

Sample input 3

g

Sample output 3

```
lowercase  
consonant
```

Sample input 4

u

Sample output 4

```
lowercase  
vowel
```

Problem information

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