

H: Vowels

Time Limit: 1 second(s)

The English alphabet consists of 26 letters. Five of these (**a**, **e**, **i**, **o** and **u**) are classified as vowels, the remaining 21 as consonants. Almost every English word contains at least one vowel (**rhythm** is one of the few exceptions).

In this problem you will be given a piece of English text. Your task is to determine the frequency of each vowel that is found in the piece, and to display the answers sorted by frequency, highest frequency first. Where two vowels are equally frequent, they are to be displayed in alphabetical order.

As you can see from the examples below, upper case and lower case letters are considered to be the same letter in this problem. Use lower case in your output. As you can see from the second example, a frequency of zero must still be displayed.

Input

Input will consist of a single line of text with length 0 to 200 characters, inclusive.

Output

Output a single line with each vowel in lower case, followed by a colon, followed by the frequency of that vowel. There must be one space between each vowel and its count.

Sample Input and Output

Sample Input 1	Output for Sample Input
Ugh!!	u:1 a:0 e:0 i:0 o:0

Sample Input 2	Output for Sample Input
This piece of text was written in the city of Auckland.	e:5 i:5 a:3 o:2 u:1

Sample Input 3	Output for Sample Input
ACM Programming Contest.	a:2 o:2 e:1 i:1 u:0