This problem is almost exactly like 301 CountUpperCase problem, except that here you need to **use a method** to do the calculations.

Declare a method named countVowelsConsonants as follows:

```
private static void countVowelsConsonants(String s) {
    // write your code to count vowels, consonants etc here.
}
```

In the main method, do all the reading of the lines and doubles. Call this method from the main method to count the vowels, consonants etc and to print them out.

Write a program that reads in lines from the input.

After each line is read in, it prints out the **number of capital vowels**, the **number of capital consonants**, and the **number of other characters** in the line.

Input

The input is just any line of characters

Output

The output will be the number of CAPITAL vowels (aeiou), the number of CAPITAL consonants (i.e. not vowels), and the number of other characters in the line. These are separated by a single space between them.

Sample Input

aokEKOkM49!4kP
AAAAOOPPPELL994920;[;];,<.>[
dv

Sample Output

2 3 9
7 5 16
0 0 2

HINT

Loop over the String a character at a time (using s.charAt(i) to get the character at index i).

Check if the character is a CAPITAL vowel (i.e. 'A' or 'E' or 'I' or 'O' or 'U').
ELSE check if is between 'A' and 'Z' -using >= and <= // that means it must be a capital consonant
ELSE it is something else.