## Vowels

Kareem has a string S of length L , He wants to count the vowels and consonants in that string.
Help Kareem in his task.

## Input

The first line contains one integer $T$ - the number of test cases ( $1<=\mathrm{T}<=100$ ), then follows T lines, each line contains a string $S(1<=|S|<=1000)$ consists of lower case, and upper case English letters, and possibly symbols and numbers.

## Output

For each test case, output one line contains two integers $A$ and $B$ - the number of vowels and the number of consonants.

## Example

Input:
2
ABCDE123*^\%
(Y)

Output:
23
10
Note:
Letters ' $Y$ ' and ' $y$ ' are considered vowels.

