



3 Monk One: Monk Takes a Walk!



Today, *Monk* went for a walk in a garden. There are many trees in the garden and each tree has an English alphabet letter on it.

While *Monk* was walking, he noticed that all trees with vowels on it are not in good state. He decided to take care of them. So, he asked you to tell him the count of such trees in the garden.

Note: The following letters are vowels: 'A', 'E', 'I', 'O', 'U', 'a', 'e', 'i', 'o' and 'u'.

Input

The first line consists of an natural number T ($1 \leq T \leq 100$), denoting the number of test cases for the current problem.

Each test case consists of only one string s of size $|s|$ ($1 \leq |s| \leq 10^4$), each character of string denoting the alphabet (may be lowercase or uppercase) on a tree in the garden.

Output

For each test case, print the count in a new line.

Example

Entrada	Saída
2 amstrong AlanTuringPrize	2 6

Entrada	Saída
5 the BIG Band Beatles John Lennon Paul McCartney Ringo Star George Harrison	6 3 5 3 6

Entrada	Saída
3 A phrase withot vewel because I delete all from phrase	7 9 3