Bored in Examination Hall...

After Darshit's brother spoiled his study time yesterday, it is difficult to write something in today's paper. All his hopes go down and he instead start to pass time by counting the number of holes in the letter of the words.

Input:
First line contains **N**, the number of test cases. Each of the following **N** lines contain a single string. (A string is an array of characters. In short, strings are words.)

Output:
Each output should contain the number of holes in the letters of the given string.
Each output should be on a new line.

Constraints:
You can assume all letters are in upper case. (captial letters)

Example: Input:
4
DAD
BEE
MADONNA
TEST

Output:
3
2
4
0