Holes in the text | Problem Code: **HOLES**

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Chef wrote some text on a piece of paper and now he wants to know how many holes are in the text. What is a hole? If you think of the paper as the plane and a letter as a curve on the plane, then each letter divides the plane into regions. For example letters "A", "D", "O", "P", "R" divide the plane into two regions so we say these letters each have one hole. Similarly, letter "B" has two holes and letters such as "C", "E", "F", "K" have no holes. We say that the number of holes in the text is equal to the total number of holes in the letters of the text. Help Chef to determine how many holes are in the text.

Input

The first line contains a single integer **T <= 40**, the number of test cases. **T** test cases follow. The only line of each test case contains a non-empty text composed only of uppercase letters of English alphabet. The length of the text is less then 100. There are no any spaces in the input.

Output

For each test case, output a single line containing the number of holes in the corresponding text.

Example

```
Input:
2
CODECHEF
DRINKEATCODE

Output:
2
5
```

All submissions for this problem are available.

Author:	anton_adm
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Editorial:	https://discuss.codechef.com/problems/HOLES
Tags:	anton_adm, cook06, easy
Date Added:	13-01-2011
Time Limit:	0.71 secs
Source Limit:	50000 Bytes
Languages:	CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYP3, TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, ASM, FORT, FS, LISP clisp, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, SCM qobi, ST, NEM

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Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our **programming contest** judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Problem Setting	Challenge	CodeChef for Business	Code of Conduct
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