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# Villages and Tribes

Problem Code: **VILTRIBE**

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as well.

There are  $n$  villages in a line in an area. There are two kinds of tribes A and B that reside there. A village can be either empty or occupied by one of the tribes. An empty village is said to be controlled by a tribe of village A if it is surrounded by villages of tribes A from the left and from the right. Same goes for the tribe B.

Find out the number of villages that are controlled by tribes A and B, respectively.

## Input

The first line of the input contains an integer  $T$  denoting the number of test cases.

The first line of the input contains a string  $s$  denoting the configuration of the villages, each character of which can be 'A', 'B' or '.'.

## Output

For each test case, output two space separated integers denoting the number of tribes controlled by tribe A and B, respectively.

## Constraints

- $1 \leq T \leq 20$
- $1 \leq |s| \leq 10^5$

## Subtasks

- Subtask #1** (40 points):  $1 \leq |s| \leq 10^3$
- Subtask #2** (60 points): Original constraints

## Example

<b>Input</b>
4
A..A..B...B
..A..
A....A
..B..B..B..
<b>Output</b>
4 5
1 0
6 0
0 7

Author: [admin2 \(/users/admin2/\)](/users/admin2/)

Date Added: 30-10-2017

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Time Limit: 2 secs

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 6.3, CPP14, CS2, D, ERL, FOR, FS, GO, HASK, ICK, ICON, JAVA, JS, kotlin, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.5, RUBY, rust, SCALA, SCM chicken, SCM guile, SCM qobi, ST, swift, TCL, TEXT, WSPC

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CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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[Upcoming Coding Contests \(http://www.codechef.com/contests#FutureContests\)](http://www.codechef.com/contests#FutureContests)

[Contest Hosting \(http://www.codechef.com/hostsyourcontest\)](http://www.codechef.com/hostsyourcontest)

[Problem Setting \(http://www.codechef.com/problemsetting\)](http://www.codechef.com/problemsetting)

[CodeChef Tutorials \(http://www.codechef.com/wiki/tutorials\)](http://www.codechef.com/wiki/tutorials)

[CodeChef Wiki \(https://www.codechef.com/wiki\)](https://www.codechef.com/wiki)

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### Practice Problems

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