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CODECHEF Certified
Data Structure & Algorithms Programme (CCDSAP)   EXAM DATE 26 AUGUST 2018   KNOW MORE

Whats in the Name | Problem Code: **NITIKA**

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Nitika was once reading a history book and wanted to analyze it. So she asked her brother to create a list of names of the various famous personalities in the book. Her brother gave Nitika the list. Nitika was furious when she saw the list. The names of the people were not properly formatted. She doesn't like this and would like to properly format it.

A name can have at most three parts: first name, middle name and last name. It will have at least one part. The last name is always present. The rules of formatting a name are very simple:

- **Only** the first letter of each part of the name should be capital.
- All the parts of the name except the last part should be represented by only two characters. The first character should be the first letter of the part and should be capitalized. The second character should be ".".

Let us look at some examples of formatting according to these rules:

- gandhi -> Gandhi
- mahatma gandhI -> M. Gandhi
- Mohndas KaramChand ganDhi -> M. K. Gandhi

Input

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

The only line of each test case contains the space separated parts of the name.

Output

For each case, output the properly formatted name.

Constraints

- Each part of the name contains the letters from lower and upper case English alphabets (i.e. from 'a' to 'z', or 'A' to 'Z')

Subtasks

Subtask #1 (40 points)

- There is exactly one part in the name.

Subtask #2 (60 points)

- Original constraints.

Example

```
Input:
3
gandhi
mahatma gandhI
Mohndas KaramChand gandhi

Output:
Gandhi
M. Gandhi
M. K. Gandhi
```

Explanation

The examples are already explained in the problem statement.

Author:	4★ iamabjain
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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**.

Practice Section - **A Place to hone your 'Computer Programming Skills'**

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ 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.

Compete - **Monthly Programming Contests and Cook-offs**

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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