

Reverse words in a string and capitalize the first letter.

Statement

Reverse the words in a string and capitalize the first letter of each reversed word, preserving the capitalization in the original string. For eg: "Hello World" would be transformed to "OlleH DlroW".

Input

The first line of input would be the number of test cases followed by each string in a line.

Sample input

```
1
Hello World
```

Output

Output should be the string with each word reversed and first letter of each reversed word capitalized. Each output string should be printed to a new line.

Sample output

```
OlleH DlroW
```

Input would be provided on the stdin and output should be printed to the stdout. (scanf() and printf() in case of C++).