Problem C. Cyber Language

Input file:	standard input
Output file:	standard output
Memory limit:	512 megabytes

You may have ever seen the following words written in cyber language: "KK", "DDW", "SMWY", which means "kan kan", "dai dai wo", "shen me wan yi", respectively.

To translate a Chinese sentence into cyber language, you need to find the first letter of each Chinese character, and write it in upper-case.

You will be given several Chinese sentences, please translate them into the cyber language described above.

Input

The first line contains a single integer T $(1 \le T \le 10)$, the number of test cases. For each test case:

The only line contains several Chinese characters written in lower-case, separated by exactly one space. It is guaranteed that the length of each line is at least 1 and at most 50.

Output

For each test case, output a single line containing a string, denoting the corresponding word written in the cyber language.

Example

standard input	standard output
3	KK
kan kan	DDW
dai dai wo	SMWY
shen me wan yi	