
Conversion

Input file: **standard input**
Output file: **standard output**
Time limit: **2 seconds**
Memory limit: **64 megabytes**

Given a string S . Print the **origin** string after replacing the following:

- Replace every **comma** character ‘,’ with a space character.
- Replace every **capital character** in S with its respective **small character** and **Vice Versa**.

Input

Only one line contains a string S ($1 \leq |S| \leq 10^5$) where $|S|$ is the length of the string and it consists of **lower** and **upper** English letters and **comma** character ‘,’.

Output

Print the string after the **conversion**.

Example

standard input	standard output
happy,NewYear,enjoy	HAPPY nEWyEAR ENJOY