

# Problem 9 – Uppercase Words

Write a program to **reverse the letters of all uppercase words in a text**. In case an uppercase word stays **unchanged** after reversing its letters, then **double each of its letters**. A word is a sequence of Latin letters separated by **non-letter characters** (e.g. punctuation characters or digits). For example, the text "*PHP5 is the latest PHP currently, YES*" consists of the following words: *PHP*, *is*, *the*, *latest*, *PHP*, *currently*, *YES*.

## Input

The input will be read from the console. It will consist of a variable number of lines, ending with the command "END".

## Output

The output should hold the **result text**. Ensure you escape correctly the HTML special characters in the output with the **SecurityElement.Escape()** method.

## Constraints

- The text will be in **ASCII encoding** (texts in Cyrillic, Arabic, Chinese, etc. are not supported).
- Allowed working time: 0.2 seconds. Allowed memory: 16 MB.

## Examples

### Input

Companies like

HP, ORACLE and IBM target their platforms for cloud-based environment.

IList<T> implements IEnumarable<T>. GoPHP is a PHP library.

END

### Output

Companies like

PH, ELCARO and MBI target their platforms for cloud-based environment.

IList<T> implements IEnumarable<T>. GoPHP is a PPHHPP library.

### Input

IBM announced it delivered the first shipment of its Enterprise Cloud system to a U.K.-based managed service provider. PHP5 is the latest PHP currently, YES

END

### Output

MBI announced it delivered the first shipment of its Enterprise Cloud system to a UU.KK.-based managed service provider. PPHHPP5 is the latest PPHHPP currently, SEY