# 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

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| **Input** |
| Companies like  HP, ORACLE and IBM target their platforms for cloud-based environment.  IList<T> implements IEnumerable<T>. GoPHP is a PHP library.  END |
| **Output** |
| Companies like  PH, ELCARO and MBI target their platforms for cloud-based environment.  IList&lt;TT&gt; implements IEnumerable&lt;TT&gt;. GoPHP is a PPHHPP library. |

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| **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 |