DWITE '09 R6 #1 - ROT13 Encryption

Time limit: 2.0s **Memory limit:** 64M

DWITE Online Computer Programming Contest, April 2010, Problem 1

ROT13 as in "*rotate by* 13" is a really simple cipher algorithm, that just advances every letter by 13 places, wrapping around from `Z` to `A`. Since applying the algorithm twice would advance each letter by 26 places, it has a really neat property that encryption and decryption are the same function.

The input will contain 5 lines, strings $1 \leq N \leq 250$ characters long.

The output will contain 5 lines — corresponding strings that were run through ROT13 once.

Note: The character rotation should apply **only to alphabetic characters**. Spaces, digits, and punctuation should stay as is.

Sample Input

```
EBG13 FNZCYR.
ROT13 SAMPLE.
```

Sample Output

```
ROT13 SAMPLE.
EBG13 FNZCYR.
```

Problem Resource: DWITE