The Virtual Learning Environment for Computer Programming

Caesar cipher P33371\_en

Write a program that encrypts messages with the "Caesar cipher", used by Julius Caesar to communicate with his generals. Given a constant k, each letter of the original message is replaced by the letter that is alphabetically k positions to its right (circularly, if needed). For instance, if k = 5, we must change 'a' by 'f', 'b' by 'g', . . . , 'y' by 'd', and 'z' by 'e'.

To solve this exercise, it can be useful a function

```
char encoded(char c, int k);
```

that returns the character corresponding to *c* when the constant is *k*.

## Input

Input consists of several cases. Each case begins with a natural number k > 0, followed by a text made up of only lowercase letters and separator characters, but with no spaces, and ended with a dot.

# Output

For each case, print in a line the encrypted text, using uppercase letters. Replace each '\_' with a space, and leave unchanged the rest of separator characters.

# Sample input

```
1
i_am_an_example.

22
veni,vidi,vinci.

26000031
yzznhzzn-eznczo-wjiz-yjnzaz_ypqzhv-zidozhjnn.
```

#### Sample output

```
J BN BO FYBNQMF
RAJE, REZE, REJYE
DEESMEES-JESHET-BONE-DOSEFE DUVEMA-ENITEMOSS
```

## **Problem information**

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