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## Obfuscation

S47315\_en

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Obfuscation of a string  $s = c_1c_2c_3 \dots c_k$  with respect to a natural number  $n$  consists of changing all the letters  $c_i \in s$  by the letter that is  $n$  places after  $c_i$  in the alphabet.

For example, `ofuscacio(1, 'A')` = 'B', because 'B' is one place after 'A'. Other examples: `ofuscacio(4, 'B')` = 'F' and `ofuscacio(2, 'AB')` = 'CD'.

The function **recursive** `void ofuscacio(int n, string s)` must be implemented with the following specification:

PRE: The input is an integer  $n$  such that  $0 \leq n \leq 20$  and a string of characters  $s = c_1c_2c_3 \dots c_k$  such that  $k > 0$  and  $\forall c_i \in s, 'A' \leq c_i \leq 'F'$ .

POST: writes to the output channel `cout` the obfuscation of the string of characters  $s$  with respect to  $n$ .

## Observation

If necessary, you can use the method `pop_back()` for vectors and `string`.

Only recursive solutions are accepted.

Just send the function. The rest will be ignored.

## Input

An integer  $n$  such that  $0 \leq n \leq 20$  and a string of characters  $s = c_1c_2c_3 \dots c_k$  such that  $k > 0$  and  $\forall c_i \in s, 'A' \leq c_i \leq 'F'$ .

## Output

For each pair  $n, s$ , the obfuscation of  $s$  with respect to  $n$ .

### Sample input

```
1 ABCD
2 ABC
0 ABC
5 DDFA
```

### Sample output

```
BCDE
CDE
ABC
IIKF
```

## Problem information

Author : PRO1

Generation : 2025-01-12 18:08:59

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