

## D. Orange

time limit per test: 2 seconds  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

### Input

The first line of the input is a string (between 1 and 50 characters long, inclusive). Each character will be a letter of English alphabet, lowercase or uppercase.

The second line of the input is an integer between 0 and 26, inclusive.

### Output

Output the required string.

### Examples

input
AprilFool 14
output
AprILFooL