# Hello Kitty (challenge)

### Wersja polska

### **English version**

Kitty sends a kind of original email messages to her friend Garf. To write a message, she chooses a word  $\mathbf{W}$  and a number  $\mathbf{n}$  and replicates  $\mathbf{W}$   $\mathbf{n}$  times horizontally. Then she repeats this string in the next line, but rotating the characters once to the left. And she repeats this 'rotate-and-output' process until the word  $\mathbf{W}$  appears displayed as the rst column of the rectangular pattern that she produces.

As an example, when she chooses the word *Hello* and the number *3*, she gets the pattern:

Kitty has been sending such emails during the last three years. Recently, Garf told her that perhaps her work may be automatized with a software to produce Kitty's patterns. Could you help her?

## Input

The input le contains several test cases, each one of them in a separate line. Each test case has a word and a positive integer that should generate the corresponding rectangular pattern. The word is a string of alphabetic characters (a..z), (A..Z). The number is less than 10. A line whose contents is a single period character means the end of the input (this last line is not to be processed).

# **Output**

Output texts for each input case are presented in the same order that input is read. For each test case the answer must be a left aligned Kitty pattern corresponding to the input.

# **Example**

#### Input:

Love 1

Kitty 2

#### **Output:**

Love

oveL

veLo

eLov

**KittyKitty** 

ittyKittyK

ttyKittyKi tyKittyKit yKittyKitt