Bases and bars   P62355_en

Write a program that, given two numbers n and b, prints the digits of n in base b as shown in the examples. For every digit d, print a line with d capital exes. Print the digits from right to left.

Input

Input consists of a natural number n between 1 and 10^6, followed by a natural number b between 2 and 100.

Output

For every digit d of n represented in base b, and starting from the digit with less weight, print a line of size d made up of only 'X'. Print a line with 10 dashes at the beginning and at the end of the output.

Sample input 1

```
1984 10
```

Sample output 1

```
----------
XXXX
XXXXXXXX
XXXXXXXXX
X
----------
```

Sample input 2

```
42 2
```

Sample output 2

```
----------

X

X

X
----------
```

Sample input 3

```
19 20
```

Sample output 3

```
----------
XXXXXXXXXXXXXXXXXXX
----------
```

Problem information

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