
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  
XXXXXXX  
XXXXXXX  
X  
-----
```

Sample input 2

42 2

Sample output 2

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

Sample input 3

19 20

Sample output 3

```
-----  
XXXXXXXXXXXXXXXXXXXX  
-----
```

Problem information

Author: Salvador Roura

Translator: Salvador Roura

Generation: 2026-01-25T11:13:23.814Z

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