Separating in lines   P93424_en

Given a natural number n, a base b, and a natural number q, print n in base b, but placing the digits of n in groups of q at every line.

Input

Input consists of several cases, each with $n > 0$, $2 \le b \le 10$, and $q > 0$.

Output

For every case, print n in base b, but placing q digits at every line. If the number of digits of n in base b is not a multiple of q, the first line must be the shortest. Print a line with 10 dashes at the end of every case.

Observation

You should not use vectors or alike to solve this problem.

Sample input 1

```
12345 10 3
123456 10 3
1234567 10 3
12 10 3
14 2 1
1000000000 2 10
```

Sample output 1

```
12
345
----------
123
456
----------
1
234
567
----------
12
----------
1
1
1
0
----------
1110111001
1010110010
1000000000
----------
```

Problem information

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