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uva Dnline Judge
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## 10551 Basic Remains

Given a base $b$ and two non-negative base $b$ integers $p$ and $m$, compute $p \bmod m$ and print the result as a base-b integer. $p \bmod m$ is defined as the smallest non-negative integer $k$ such that $p=a * m+k$ for some integer $a$.

## Input

Input consists of a number of cases. Each case is represented by a line containing three unsigned integers. The first, $b$, is a decimal number between 2 and 10 . The second, $p$, contains up to 1000 digits between 0 and $b-1$. The third, $m$, contains up to 9 digits between 0 and $b-1$. The last case is followed by a line containing ' 0 '.

## Output

For each test case, print a line giving $p \bmod m$ as a base- $b$ integer.

## Sample Input

21100101
101234567891234567891234567891000
0

## Sample Output

10
789

