## Base62

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 512 megabytes

As we already know, base64 is a common binary-to-text encoding scheme. Here we define a special series of positional systems that represent numbers using a base (a.k.a. radix) of 2 to 62. The symbols '0' – '9' represent zero to nine, and 'A' – 'Z' represent ten to thirty-five, and 'a' – 'z' represent thirty-six to sixty-one. Now you need to convert some integer z in base x into base y.

## Input

The input contains three integers  $x, y \ (2 \le x, y \le 62)$  and  $z \ (0 \le z < x^{120})$ , where the integer z is given in base x.

## Output

Output the integer z in base y.

## Example

standard input	standard output
16 2 FB	11111011