Dividing

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

The following rules define a kind of integer tuple - the Legend Tuple:

- $(1, k)$ is always a Legend Tuple, where k is an integer.
- if (n, k) is a Legend Tuple, $(n + k, k)$ is also a Legend Tuple.
- if (n, k) is a Legend Tuple, (nk, k) is also a Legend Tuple.

We want to know the number of the Legend Tuples (n, k) where $1 \leq n \leq N, 1 \leq k \leq K$.
In order to avoid calculations of huge integers, report the answer modulo $10^9 + 7$ instead.

Input

The input contains two integers N and K, $1 \leq N, K \leq 10^{12}$.

Output

Output the answer modulo $10^9 + 7$.

Examples

standard input	standard output
3 3	8
3 9	14