

## Product

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

Given **three numbers**  $L, R$  and  $M$ . Print the **product** of all numbers from  $L$  to  $R$  (inclusive) module  $M$ .

## Input

Only one line contains three numbers  $L, R$  and  $M$  ( $1 \leq L, R, M \leq 10^5$ ).

**It's guaranteed that** ( $L \leq R$ ).

## Output

Print the answer required above.

## Example

standard input	standard output
1 20 10007	8707