

## A. Candies

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Polycarpus has got  $n$  candies and  $m$  friends ( $n \geq m$ ). He wants to make a New Year present with candies to each friend. Polycarpus is planning to present all candies and he wants to do this in the fairest (that is, most equal) manner. He wants to choose such  $a_i$ , where  $a_i$  is the number of candies in the  $i$ -th friend's present, that the maximum  $a_i$  differs from the least  $a_i$  as little as possible.

For example, if  $n$  is divisible by  $m$ , then he is going to present the same number of candies to all his friends, that is, the maximum  $a_i$  won't differ from the minimum one.

### Input

The single line of the input contains a pair of space-separated positive integers  $n, m$  ( $1 \leq n, m \leq 100; n \geq m$ ) — the number of candies and the number of Polycarpus's friends.

### Output

Print the required sequence  $a_1, a_2, \dots, a_m$ , where  $a_i$  is the number of candies in the  $i$ -th friend's present. All numbers  $a_i$  must be positive integers, total up to  $n$ , the maximum one should differ from the minimum one by the smallest possible value.

### Examples

input
12 3
output
4 4 4

input
15 4
output
3 4 4 4

input
18 7
output
2 2 2 3 3 3 3

### Note

Print  $a_i$  in any order, separate the numbers by spaces.