Problem J. Find a Number

Time limit 3000 ms
Mem limit 262144 kB

You are given two positive integers d and s. Find minimal positive integer n which is divisible by d and has sum of digits equal to s.

Input

The first line contains two positive integers d and s ($1 \le d \le 500, 1 \le s \le 5000$) separated by space.

Output

Print the required number or `-1` if it doesn't exist.

Sample 1

Input	Output
13 50	699998

Sample 2

Input	Output
61 2	10000000000000000000000000000001

Sample 3

Input	Output
15 50	-1