

T. Olesya and Rodion

time limit per test: 1 second🕒
memory limit per test: 256 megabytes
input: standard input
output: standard output

Olesya loves numbers consisting of n digits, and Rodion only likes numbers that are divisible by t . Find some number that satisfies both of them.

Your task is: given the n and t print an integer strictly larger than zero consisting of n digits that is divisible by t . If such number doesn't exist, print -1 .

Input

The single line contains two numbers, n and t ($1 \leq n \leq 100, 2 \leq t \leq 10$) — the length of the number and the number it should be divisible by.

Output

Print one such positive number without leading zeroes, — the answer to the problem, or -1 , if such number doesn't exist. If there are multiple possible answers, you are allowed to print any of them.

Examples

input	Copy
3 2	
output	Copy
712	

Assiut University Training - Newcomers

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→ About Group



[Group website](#)

→ Group Contests

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
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- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

Sheet #9 (General medium)

Finished

Practice



→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the [link](#).