



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# C. Given Length and Sum of Digits...

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

You have a positive integer m and a non-negative integer s. Your task is to find the smallest and the largest of the numbers that have length s and sum of digits s. The required numbers should be non-negative integers written in the decimal base without leading zeroes.

#### Input

The single line of the input contains a pair of integers m, s ( $1 \le m \le 100$ ,  $0 \le s \le 900$ ) — the length and the sum of the digits of the required numbers.

## **Output**

In the output print the pair of the required non-negative integer numbers — first the minimum possible number, then — the maximum possible number. If no numbers satisfying conditions required exist, print the pair of numbers "-1 -1" (without the quotes).

### Examples

Litamples				
input				
2 15				
output				
69 96				
input				
30				
output				
-1 -1				

# Codeforces Round #277.5 (Div. 2)

# **Finished**

## → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags		
(dp) (greedy) (implementation)		
	No tag edit access	

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#### → Contest materials

- Announcement
- Tutorial

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