

Problem G. Least Number

Input file: *standard input*
Output file: *standard output*
Time limit: 2 seconds
Memory limit: 512 mebibytes

You are given a number N and a digit d . Consider all numbers which **do not contain** digit d in their decimal notation. Find the minimum such number for which the sum of its digits is exactly N .

Input

The first line contains two integers N and d ($2 \leq N \leq 10^6$, $0 \leq d \leq 9$).

Output

Print one integer: the minimum number which does not contain digit d and has the sum of its digits equal to N .

Example

standard input	standard output
14 9	68