As Alan Turing and his friend David Champernowne gave the name "The All-time Champ" number (as a joke with the David surname) to the trascendental constant $0.1234567891011 \ldots$ obtained by concatenating the positive integers and interpreting them as decimal digits to the right of a decimal point, let us nominate "All-time Champ Integers" to the numbers constructed by concatenating the digits of a set of consecutive integers.

Given two natural numbers $0<m \leq n$, there is a such integer, but there are other natural numbers that contain, as substrings, all the numbers between $m$ and $n$, both included. For example for $m=1$ and $n=13$, possible solutions are 12345678910111213 (the corresponding "Champ"), 1011213456789 or 1101213456789 . We can see that the last two numbers have only 13 digits as against the 17 of the "Champ".

Your task is to find out the shortest such integer.

## Input

The input file contains several lines of input. Each line contains two natural numbers $m$ and $n(0<$ $m \leq n<100$ ). Input is terminated by end of file.

## Output

For each line of input produce one line of output. This line contain the shortest integer that contains as substring all the numbers between $m$ and $n$ (both included). There may be more than one solution. We will accept any one of the solutions.

## Sample Input

113
14
1314
1112

## Sample Output

1101213456789
1234
1314
112

