A Benedict monk No. 16 writes down the decimal representations of all natural numbers between and including m and n,  $m \le n$ . How many 0's will he write down?

## Input

Input consists of a sequence of lines. Each line contains two unsigned 32-bit integers m and n,  $m \leq n$ . The last line of input has the value of m negative and this line should not be processed.

## **Output**

For each line of input print one line of output with one integer number giving the number of 0's written down by the monk.

## Sample Input

10 11 100 200 0 500

1234567890 2345678901

0 4294967295

-1 -1

## Sample Output

1 22 92 987654304 3825876150

