Lets define a simple recursive function $F(n)$, where

$$
F(n)=p(x)= \begin{cases}n \% 10, & \text { if }(n \% 10)>0 \\ 0, & \text { if } n=0 \\ F(n / 10), & \text { Otherwise }\end{cases}
$$

Lets define another function $S(p, q)$,

$$
S(p, q)=\sum_{i=p}^{q} F(i)
$$

In this problem you have to Calculate $S(p, q)$ on given value of $p$ and $q$.

## Input

The input file contains several lines of inputs. Each line contains two non negative integers $p$ and $q$ $(p \leq q)$ separated by a single space. $p$ and $q$ will fit in 32 bit signed integer. In put is terminated by a line which contains two negative integers. This line should not be processed.

## Output

For each set of input print a single line of the value of $S(p, q)$.

## Sample Input

110
1020
3040
-1 -1

## Sample Output

46

