

# Problem E

## Simple Addition

**Input:** Standard Input  
**Output:** Standard Output

Let's define a simple recursive function  $F(n)$ , where

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

Let's 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. Input is terminated by a line which contains two negative integers. This line should not be processed.

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

### Sample Input

```
1 10
10 20
30 40
-1 -1
```

### Output for Sample Input

```
46
48
52
```

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