

# Sum of Digits

Majid is a 3rd-grade elementary student and quite well in mathematics. Once, Majid's teacher asked him to calculate the sum of numbers 1 through n.

Majid quickly answered, and his teacher made him another challenge. He asked Majid to calculate the sum of the digits of numbers 1 through n.

Majid did finally find the solution. Now it is your turn, can you find a solution?

## Input

Two space-separated integers  $0 \leq a \leq b \leq 10^9$ .

Program terminates if a and b are -1.

## Output

The sum of the digits of numbers a through b.

## Example

### Input:

```
1 10  
100 777  
-1 -1
```

### Output:

```
46  
8655
```