

## 6847 Zeroes

Factorial  $n$  is written as  $n!$  and  $n! = 1 * 2 * 3 * \dots * (n-1) * n$ . For example  $2! = 1 * 2 = 2$ ,  $3! = 1 * 2 * 3 = 6$ ,  $5! = 120$ ,  $10! = 3,628,800$ , etc. The function  $fzero(n)$  denotes the number of trailing zeroes in  $n!$  in decimal number system. For example  $fzero(2) = 0$ ,  $fzero(5) = 1$ ,  $fzero(10) = 2$ . Given the domain of the input parameter  $v$  of  $fzero(v)$  function, you will have to find out how many different values of  $fzero()$  are there within this range.

### Input

The input file contains at most 50001 lines of inputs. Each line contains two positive integers  $low$  and  $high$  ( $0 < low \leq high \leq 9 * 10^{18}$ ). Input is terminated by a line containing two zeroes.

### Output

For each line of input produce one line of output. This line contains an integer  $D$ , which denotes how many different values the function  $fzero(v)$  can have if ( $low \leq v \leq high$ ).

#### Note:

Illustration for Sample input 1: as  $1! = 1$ ,  $2! = 2$ ,  $3! = 6$ ,  $4! = 24$ ,  $5! = 120$ ,  $6! = 720$ ,  $7! = 5,040$ ,  $8! = 40,320$ ,  $9! = 362,880$ ,  $10! = 3,628,800$ , so  $fzero(1) = 0$ ,  $fzero(2) = 0$ ,  $fzero(3) = 0$ ,  $fzero(4) = 0$ ,  $fzero(5) = 1$ ,  $fzero(6) = 1$ ,  $fzero(7) = 1$ ,  $fzero(8) = 1$ ,  $fzero(9) = 1$  and  $fzero(10) = 2$ . So in this range (1 to 10) there are three different values of  $fzero(v)$ : 0, 1 and 2.

### Sample Input

```
1 10
1 3
0 0
```

### Sample Output

```
3
1
```