

In mathematics, the factorial of a positive integer number  $n$  is written as  $n!$  and is defined as follows:

$$n! = 1 \times 2 \times 3 \times 4 \times \cdots \times (n-1) \times n = \prod_{i=1}^n i$$

The value of  $0!$  is considered as 1.  $n!$  grows very rapidly with the increase of  $n$ . Some values of  $n!$  are:

$0! = 1$	$5! = 120$
$1! = 1$	$10! = 3628800$
$2! = 2$	$14! = 87178291200$
$3! = 6$	$18! = 6402373705728000$
$4! = 24$	$22! = 112400072777607680000$

You can see that for some values of  $n$ ,  $n!$  has odd number of trailing zeroes (eg  $5!$ ,  $18!$ ) and for some values of  $n$ ,  $n!$  has even number of trailing zeroes (eg  $0!$ ,  $10!$ ,  $22!$ ). Given the value of  $n$ , your job is to find how many of the values  $0!$ ,  $1!$ ,  $2!$ ,  $3!$ ,  $\dots$ ,  $(n-1)!$ ,  $n!$  has even number of trailing zeroes.

### INPUT

Input file contains at most 1000 lines of input. Each line contains an integer  $n$  ( $0 \leq n \leq 10^{18}$ ). Input is terminated by a line containing a  $-1$ .

### OUTPUT

For each line of input produce one line of output. This line contains an integer which denotes how many of the numbers  $0!$ ,  $1!$ ,  $2!$ ,  $3!$ ,  $\dots$ ,  $n!$ , contains even number of trailing zeroes.

#### SAMPLE INPUT

```
2
3
10
100
1000
2000
3000
10000
100000
200000
-1
```

#### SAMPLE OUTPUT

```
3
4
6
61
525
1050
1551
5050
50250
100126
```