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:

$0! = 1$	$5! = 120$
$1! = 1$	$10! = 3628800$
$2! = 2$	$14! = 87178291200$
$3! = 6$	$18! = 6402373705728000$
$4! = 24$	$22! = 1124000727777607680000$

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!, ... , $(n-1)!$, $n!$ 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!, ..., $n!$, 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
```

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