## ODD AND EVEN ZEROES

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

$$
n!=1 \times 2 \times 3 \times 4 \times \cdots \times(n-1) \times n
$$

The value of 0 ! is considered as 1 . $n$ ! grows very rapidly with the increase of $n$. Some values of $n$ ! are:
$0!=1 \quad 5!=120$
$1!=1 \quad 10!=3628800$
$2!=2 \quad 14!=87178291200$
$3!=6 \quad 18!=6402373705728000$
$4!=24 \quad 22!=1124000727777607680000$
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 $0!, 1!, 2!, 3!, \ldots,(n-1)!, n!$ has even number of trailing zeroes.

## Input

Input file contains at most 1000 lines of input. Each line contains an integer $n\left(0 \leq n \leq 10^{18}\right)$.
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 $0!, 1!, 2!, 3!, \ldots, n!$, contains even number of trailing zeroes.

## Examples

| № | stdin |  |
| :---: | :--- | :--- | :--- |
| 1 | 2 | 3 |
|  | 3 | stdout |
|  | 10 | 6 |
|  | 100 | 61 |
|  | 1000 | 525 |
|  | 2000 | 1050 |
|  | 3000 | 1551 |


| 10000 |  |
| :--- | :--- |
| 100000 |  |
| 200000 |  |
| -1 | 5050 |
| 50250 |  |

