

Factorial (Again!)

Have you solved [FCTRL](#) problem?

In this problem you need to do the same task (given positive integer $n < 10^{100}$ you need to count number of zeroes at the end of the decimal number of $n!$), seems easy(?) but this time only Brainf**k language allowed.

Input

First line of input there is an integer $T \leq 1000$ denoting number of test case.

Next T lines containing an integer n .

Each line is terminated with newline character (ASCII:10)

Output

For each test case, output number of zeroes at the end of the decimal form of number $n!$

Example

Input:

```
6
3
60
100
1024
23456
8735373
```

Output:

```
0
14
24
253
5861
2183837
```

Other Info

Input: 100% random log-uniform.

This problem is using custom judge, so you can see the detail after you get AC/WA.

Judge output format is like this: ("Code Length (Valid Command only)")"Cell Used"("BF Command executed").

[Click here to see my submission result for this problem.](#)

Judge output for my BF code is: (1340)501(392776170) meaning that my Valid BF commands = 1340 commands and My code using 501 BF cell and 392776170 commands executed.

You can click (AC/WA) status for more detail.

My code running time is 0.59s and using 1.6MB of memory.

Time limit is $\sim 16\times$ my BF program speed.

See also: [Another problem added by Tjandra Satria Gunawan](#)