Zeros of factorial

Given integer **n**, print number of final zeros of **n!** (which is factorial of **n**).

Input

The first line of the standard input contains one integer **t** (t<2001) which is the number of test cases.

In each of the next **t** lines there is number **n** (0<=n<=10^9).

Output

For each test, print the number of final zeros of **n!**.

Example

Input:
2
10
1000000
Output:
2
249998

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