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Project Euler #1: Multiples of 3 and 5

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Problem

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This problem is a programming version of [Problem 1](#) from [projecteuler.net](#)

If we list all the natural numbers below **10** that are multiples of **3** or **5**, we get **3, 5, 6** and **9**. The sum of these multiples is **23**.

Find the sum of all the multiples of **3** or **5** below ***N***.

Input Format

First line contains ***T*** that denotes the number of test cases. This is followed by ***T*** lines, each containing an integer, ***N***.

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq N \leq 10^9$

Output Format

For each test case, print an integer that denotes the sum of all the multiples of **3** or **5** below ***N***.

Sample Input 0

```
2
10
100
```

Sample Output 0

```
23
2318
```

Explanation 0

For ***N* = 10**, if we list all the natural numbers below **10** that are multiples of **3** or **5**, we get **3, 5, 6** and **9**. The sum of these multiples is **23**.

Similarly for ***N* = 100**, we get **2318**.

[f](#) [t](#) [in](#)Submissions: [57287](#)

Max Score: 100

Difficulty: Easy

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