

# Project Euler #1: Multiples of 3 and 5

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**.