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

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

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.