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Project Euler #1: Multiples of 3 and 5

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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

[f](#) [t](#) [in](#)Submissions: [39032](#)

Max Score: 100

Difficulty: Easy

Rate This Challenge:

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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**.

Current Buffer (saved locally, editable)  

Java 7   

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int t = in.nextInt();
12         for(int a0 = 0; a0 < t; a0++){
13             int n = in.nextInt();
14         }
15     }
16 }
17
```

Line: 1 Col: 1