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.

Output Format

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

Constraints

1 ≤ T ≤ 105

1 ≤ N ≤ 109

Sample Input

2

10

100

Sample Output

23

2318