Break Numbers[Duplicate problem]

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Given a large number N, write a program to break it into 3 whole numbers such that they sum up to the original number and count number of ways to do so.

Input:
First line of input contains a single integer T which denotes the number of test cases. Then T test cases follows. First line of each test case contains a single integer N.

Output:
For each test case print the total number of ways to divide the given number into 3 whole numbers such that sum of the three whole numbers is equal to the number itself.

Constraints:
$1<=T<=100$
$1<=N<=10^9$

Example:
Input:
2
3
6
Output:
10
28