**Number of Integer solutions**

[maths](http://www.practice.geeksforgeeks.org/tag-page.php?tag=maths&isCmp=0)

You are given a positive integer **N** and you have to find the number of non negative integral solutions to **a + b + c = N.**

**Input:**  
The first line of input contains an integer **T**denoting the number of test cases. Then **T**test cases follow.   
The first and only line of each test case contains a positive integer **N**.  
  
**Output:**  
For each test case in a new line, print the number of possible non negative integral solutions.

**Constraints:**  
1 <= **T** <= 100  
1 <= **N** <= 1000

**Example:**

**Input:**  
2  
10  
20  
  
**Output:**  
66  
231

\*\*For More Examples Use Expected Output\*\*

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=954>

#include <iostream>

#include <stdio.h>

#include <vector>

#include <algorithm>

#include <math.h>

#define ll long long int

using namespace std;

int main() {

  int t;

  scanf("%d", &t);

  while(t--) {

    int n;

    scanf("%d", &n);

    int cont =0;

    for(int i =0; i <= n; i++) {

      for(int j = 0; j <= n; j++) {

        if( n-i-j >= 0) {

           //  printf("%d %d %d\n", i, j, n - i - j);

            cont ++;

        }

      }

    }

    printf("%d**\n**", cont);

  }

   //system("pause");

  return 0;

}