**Divide the number**

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

Given a positve integer **N**, count the number of possible ways to represent **N** as sum of four positive integers.

**Input**  
The first line of input contains an integer **T**denoting the number of test cases. Then **T** test cases follow.   
The first line of each test case contains a positve integer **N**.

**Output**  
Print out the number of ways to divide **N** in four parts.

**Constraints**  
1 <= **T** <= 100  
0 <= **N** <=3000

**Examples**

**Input**  
3  
5  
41  
500

**Output**  
1  
511  
873264

**Explaination**

**Output 1:**There is only one way to divide 5  (1, 1, 1, 2)

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

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=934>

#include <iostream>

#include <stdio.h>

using namespace std;

int main() {

int t;

scanf("%d", &t);

while(t--) {

int n;

scanf("%d", &n);

int ans =0;

for(int i = 1; i < n; i++) {

for(int j = i; j < n; j++) {

for(int k = j; k < n; k++) {

for(int l = k; l < n; l++) {

if(i + j + k + l == n) {

ans++;

}

}

}

}

}

cout << ans << endl;

}

return 0;

}