**N Boy and Sum**Problem Code: **NBSUM*Solved***[Submit](https://www.codechef.com/submit/NBSUM)

All submissions for this problem are available.

**For Turbo C++ Users : Read the following document before attempting the question :**[**Switching from Turbo to GNU**](http://foobar.iiitd.edu.in/turbo.pdf)

**Problem Description**

First question is easy to set you up with the online judge. You are given a number 'N'. You need to find the sum of first N terms of the series: 1 - 2 + 3 - 4 + 5 - 6 ...

**Input**

First line contains T, the number of test cases. Each test case contains the number N on a new line,which denotes the number of events

**Output**

For each test case, print the total number of registrations on a new line for every test case.

**Constraints**

Subtask 1 (30 points):

* **1** ≤ **T** ≤ **105**
* **1** ≤ **N** ≤ **100**

Subtask 2 (70 points):

* **1** ≤ **T** ≤ **105**
* **1** ≤ **N** ≤ **105**

**Example**

**Input:**

3

3

1

2

**Output:**

2

1

-1

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Tags:[proconjr2015](https://www.codechef.com/tags/problems/proconjr2015)

Date Added:19-07-2015

Time Limit:1 secs

Source Limit:50000 Bytes

Languages:C, CPP 4.3.2, CPP 4.9.2, CPP14, JAVA, PYTH, PYTH 3.4

<https://www.codechef.com/problems/NBSUM/>

-------MI SOLUCION ACEPTADA--------

<http://www.9math.com/book/sum-first-n-odd-natural-numbers>

The sum of the first n odd natural numbers

Posted September 20th, 2007 by Isoscel

Is there an easy way to calculate the some of the first n natural numbers?

1+3+5+...+(2n-1) = ?

Let's look at the problem for n = 1,2,3,4,5

1=1=12  
1+3=4=22  
1+3+5=9=32  
1+3+5+7=16=42  
1+3+5+7+9=25=52

* */\**
* *\* To change this template, choose Tools | Templates*
* *\* and open the template in the editor.*
* *\*/*

* import java.io.BufferedReader;
* import java.io.IOException;
* */\*\**
* *\**
* *\* @author Administrador*
* *\*/*
* **public** **class** Main {
* */\*\**
* *\* @param args the command line arguments*
* *\*/*
* **public** static void main(**[String](http://www.google.com/search?q=allinurl%3AString+java.sun.com&bntl=1)**[] args) **throws** [**IOException**](http://www.google.com/search?q=allinurl%3AIOException+java.sun.com&bntl=1) {
* *// TODO code application logic here*
* [**BufferedReader**](http://www.google.com/search?q=allinurl%3ABufferedReader+java.sun.com&bntl=1) br = **new** java.io.BufferedReader (**new** java.io.InputStreamReader ([**System**](http://www.google.com/search?q=allinurl%3ASystem+java.sun.com&bntl=1).in));
* int t = [**Integer**](http://www.google.com/search?q=allinurl%3AInteger+java.sun.com&bntl=1).parseInt(br.readLine());
* while(t-- > 0) {
* long n = [**Integer**](http://www.google.com/search?q=allinurl%3AInteger+java.sun.com&bntl=1).parseInt(br.readLine());
* long impares = (int) [**Math**](http://www.google.com/search?q=allinurl%3AMath+java.sun.com&bntl=1).ceil(n/2.0);
* long sumImpares = impares \* impares;
* long sumPares = ((n\* (n+1))/2) - sumImpares;
* *//System.out.println(sumPares);*
* *//System.out.println(impares);*
* [**System**](http://www.google.com/search?q=allinurl%3ASystem+java.sun.com&bntl=1).out.println(sumImpares - sumPares);
* }
* }
* }