

BUBT INTRA-UNIVERSITY PROGRAMMING CONTEST SPRING 2017(DIVISION 2)



Finished

THE CONTEST HAS ENDED.

G. Counting Triangle

Score: 1

CPU: 5s

Memory: 512MB

A triangle is a polygon with three edges and three vertices. For the time being we will consider only integer vertices. A right triangle or right-angled triangle is a triangle in which one angle is a right angle (that is, a 90-degree angle).

For a 2X2 grid ({0, 0}, {2, 0}, {2, 2}, {0, 2}) there are only 14 unique right-angled triangle if we fix one vertex to the origin.

Given a nXn grid your job is to count the number of unique right-angled triangle you can draw where one vertex of the triangle lies in origin (0, 0).

INPUT

First line of input will contain an integer T ($T \leq 100$) denoting the number of test case. For each case you will be given a positive integer N ($0 \leq N \leq 100$).

OUTPUT

Each line of the output will contain the number of possible unique right-angled triangles within the area of the rectangle surrounded by the points (0, 0), (N,0), (N,N) and (0,N) where one of the vertex lies in (0,0).

Sample

Input	Output
1	14
2	

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