#At the annual meeting of Board of Directors of Acme Inc. If everyone attending shakes hands exactly one time with every other attendee,how many handshakes are there?

#Example

#n=3

#There are 3 attendees,p1,p2 and p3. P1 shakes hands with p2 and p3 , and p2 shakes hands with p3. Now they have all shaken hands after 3 handshakes.

#Function Description

#Complete the handshakes function in the editor below.

#handshakes has the following parameter:

#int n: the number of attendees

#Returns

#int: the number of handshakes

#Input Format

#The first line contains the number of test cases .

#Each of the following lines contains an integer, .

#Constraints

#1<=T<=1000

#0<N<10^6

#Sample Input

#2

#1

#2

#Sample Output

#0

#1

#Explanation

#Case 1 : The lonely board member shakes no hands, hence 0.

#Case 2 : There are 2 board members, so 1 handshake takes place.

#Python-Handshake

Import math

Import os

Import random

Import re

Import sys

t = int(input().strip())

For \_ in range(t):

n = int(input().strip())

Print(n \* (n – 1) // 2)