Number of Diagonals

Given a number N. Write a program to the find number of diagonals possible in N sided convex polygon.

Input:
First line of input contains a single integer T which denotes the number of test cases. T test cases follows. First line of each test case contains a single integer N.

Output:
For each test case print number of diagonals possible in N sided convex polygon.

Constraints:
$1<=T<=100$
$3<N<=10^4$

Example:
Input:
2
5
6
Output:
5
9