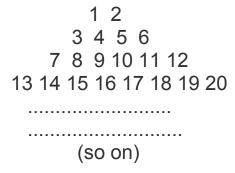
Sum Terms Nth Row

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Given a series as shown below:



You are given a number N, you need to write a program to find the sum of all elements in the N-th row of above series.

Input:

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

Output:

For each test case, print the sum of all the elements present in Nth row of above series.

Constraints:

1<=T<=100 1<=N<=100

Example:

Input:

2

2

4

Output:

18

132