## 10694 Combinatorial Summation

I am sure about your interest with combinations. Why not put yourself into a test to see your flair?

So here is the problem: You are given an integer $n$ (less than 999). You have to evaluate the expression given at right. Hope to see you successful with this. You should count any term as zero which has $k<j$.
$i=\infty$
$k=-\infty$


Input
The first line of input is an integer $t(<2000)$. Then follows $t$ lines each of which contain $n$ as described before.

## Output

There should be one line of output for each input which will be the value of the above expression for the corresponding $n$.

## Sample Input

2
3
4

## Sample Output

7
14

