## Bee Walk

## English

## Vietnamese

A bee larva living in a hexagonal cell of a large honey comb decides to creep for a walk. In each "step" the larva may move into any of the six adjacent cells and after $n$ steps, it is to end up in its original cell.

Your program has to compute, for a given n , the number of different such larva walks.


## Input

The first line contains an integer giving the number of test cases to follow. Each case consists of one line containing an integer $n$, where $1 \leq n \leq 14$.

## Output

For each test case, output one line containing the number of walks. Under the assumption $1 \leq n \leq$ 14 , the answer will be less than $2^{\wedge} 31$.

Input:
2
2
4

## Output:

6
90

