# **Bee Walk**

### <u>English</u> <u>Vietnamese</u>

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  $1 \le n \le 14$ .

### **Output**

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

#### Input:

2

2

#### **Output:**

6

90