Problem A
Expression Bracketing

Input: standard input
Output: standard output
Time Limit: 1 second
Memory Limit: 32 MB

In this problem you will have to find in how many ways **n** letters can be bracketed so that the bracketing is non-binary bracketing. For example **4** letters have **11** possible bracketing:

xxxx, (xx)xx, x(xx)x, xx(xx), (xxx)x, x(xxx), ((xx)x)x, (x(xx))x, (xx)(xx), x((xx)x), x(x(xx)). Of these the first six bracketing are not binary. Given the number of letters you will have to find the total number of non-binary bracketing.

Input
The input file contains several lines of input. Each line contains a single integer **n (0<n<=26)**. Input is terminated by end of file.

Output
For each line of input produce one line of output which denotes the number of non binary bracketing with **n** letters.

Sample Input
```
3
4
5
10
```

Sample Output
```
1
6
31
98187
```

(The Decider Contest, Problem setter: Shahriar Manzoor)