



Problem : Catalan Numbers

Time Limit 1 second

Input

The first line of input consists of an integer q , where $1 \leq q \leq 10$. Then follow q lines, each containing an integer x where $1 \leq x \leq 20$.

Output

Then for each query x , output a line containing C_x , the x :th Catalan number.

Sample Input 1	Sample Output 1
6 1 2 3 4 5 20	1 2 5 14 42 6564120420