## 12022 Ordering T-shirts

Working in a boutique folding and putting in order T-shirts according to their sizes seems very easy. But is it really so simple?

Given $n$ objects of different sizes, how many different arrangements can be done using relationships ' $<$ ' and ' $=$ '?

For instance, with 2 objects, A and B , we have 3 possible arrangements:
$\mathrm{A}=\mathrm{B} \quad \mathrm{A}<\mathrm{B} \quad \mathrm{B}<\mathrm{A}$
With 3 objects, $\mathrm{A}, \mathrm{B}$ and C , you must conclude that 13 different arrangements exist:

$$
\begin{aligned}
& \mathrm{A}=\mathrm{B}=\mathrm{C} \quad \mathrm{~A}=\mathrm{B}<\mathrm{C} \quad \mathrm{~A}<\mathrm{B}=\mathrm{C} \quad \mathrm{~A}<\mathrm{B}<\mathrm{C} \quad \mathrm{~A}<\mathrm{C}<\mathrm{B} \quad \mathrm{~A}=\mathrm{C}<\mathrm{B} \quad \mathrm{~B}<\mathrm{A}=\mathrm{C} \quad \mathrm{~B}<\mathrm{A}<\mathrm{C} \quad \mathrm{~B}<\mathrm{C}<\mathrm{A} \quad \mathrm{~B}=\mathrm{C}<\mathrm{A} \\
& \mathrm{C}<\mathrm{A}=\mathrm{B} \quad \mathrm{C}<\mathrm{A}<\mathrm{B} \quad \mathrm{C}<\mathrm{B}<\mathrm{A}
\end{aligned}
$$

## Input

The first line of the input contains an integer, $t$, indicating the number of test cases. For each test case, one line appears, that contains a number $n, 1 \leq n \leq 11$, representing the number of objects.

## Output

For each test case, the output should contain a single line with the number representing the different arrangements you can do with $n$ objects.

## Sample Input

## Sample Output

1
3
13
75

