## Recursive World!!!

See following the two recursive functions,
$C(0)=0$
$C(1)=5$
$C(K)=C(K-1)+4$
$F(0)=1$
$F(1)=2$
$F(N)=F(N-1)+C(N-1)$
Now you are given $\mathbf{N}$, you have to find the value of $\mathbf{F}(\mathbf{N})$.

## Input:

Input starts with an integer $\mathbf{T}$, denoting the number of test cases. Each test case contains an integer $\mathbf{N}$

## Constraints

$\mathrm{T}<=800000$
$0<=\mathrm{N}<=1000000000$

## Output:

For each test case, print the value of $\mathbf{F}(\mathbf{N})$. The value of $\mathbf{F}(\mathbf{N})$ fits in 64-bit signed integer.

| Sample Input | Sample Output |
| :--- | :--- |
| 2 | 16 |
| 3 | 46 |
| 5 |  |

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