## Visible Lattice Points

Consider a $N^{*} N^{*} N$ lattice. One corner is at $(0,0,0)$ and the opposite one is at $(N, N, N)$. How many lattice points are visible from corner at $(0,0,0)$ ? A point $X$ is visible from point $Y$ iff no other lattice point lies on the segment joining $X$ and $Y$.

Input:
The first line contains the number of test cases T . The next T lines contain an interger N

Output:
Output T lines, one corresponding to each test case.

Sample Input :
3
1
2
5

Sample Output :
7
19
175

Constraints :
T <= 50
$1<=\mathrm{N}<=1000000$

