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 <= N <= 1000000