# N-th Term

Find the n-th term of the sequence 1, 4, 16, 36, 100, ...

## Input

First Line: T (No. of test cases < 1000)

T Lines each containing a value of n (n < 100000)

## Output

Exactly T lines each containing n-th term of the sequence.

## **Example**

#### Input:

4

2

3

4

5

#### Output:

4

16

36

100