



## Problem Per-Square

Time Limit 1 second

### Problem

Alex has packs of match stick but he only needed one stick to start a fire. After that he got very bored and thought to play around with the sticks and decided to create N number of squares with the sticks.

He wants their sides to be a sequence of integers from 1 to N. assuming every match stick has one unit. How many match sticks does Alex need.

### Input

The input is a one line single integer N which denotes the number of squares Alex wants to make.  $1 \leq N \leq 100000000$

### Output

Display the number of match sticks Alex need to create all the squares he needs.

Sample Input 1	Sample Output 1
3	24

Sample Input 2	Sample Output 2
100000	20000200000

**Explanation** in the above example 1.

The squares has a side of 1, 2 and 3. Their perimeter will be 4, 8 and 12

So the total match stick Alex will be needing is  $4 + 8 + 12 = 24$