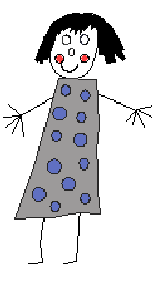
**Joana and the Odd Numbers**

Joana loves playing with odd numbers. In the other day, she started writing, in each line, an odd number of odd numbers. It looked as follows:

1

3 5 7

9 11 13 15 17

19 21 23 25 27 29 31

...

On a certain line Joana wrote 55 odd numbers. Can you discover the sum of the last three numbers written in that line? Can you do this more generally for a given quantity of odd numbers?

**Problem**

Given the number **N** of odd numbers in a certain line, your task is to determine the sum of the last three numbers of that line.

**Input**

The input is a sequence of lines, one odd number **N** (*1<N<1000000000*) per line

**Output**

For each input line write the sum of the last three odd numbers written by Joana in that line with **N** numbers. This sum is guaranteed to be less than 263.

**Sample Input**

3

5

7

**Sample Output**

15

45

87

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(Concurso de Programa��o da Universidade do Porto 2004)  
(Torneio Inter-Universit�rio de Programa��o, 2004, Round 3)*