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
$\begin{array}{lll}3 & 5 & 7\end{array}$
$\begin{array}{lllll}9 & 11 & 13 & 15 & 17\end{array}$
19212325272931

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?

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 $2^{63}$.

## Sample Input

3
5
7

## Sample Output

15
45

