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?

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 97

87

