

## 1070 - A Simple Calculation

### Description

The next questions are classics of mathematics workshop. How many squares are in the  $N \times N$  chessboard squares? And, how many rectangles of any size?

### Input specification

The input file consists of several lines. The line number  $i$  contains a single number  $N$  [ $1 \leq N \leq 100$ ] representing the size of the  $i$ -th chessboard.

### Output specification

The output file should contain the same number of lines as the input file. The  $i$ -th line should contain two numbers separated by a blank space - the number of squares, and the number of rectangles.

### Sample input

```
1
2
3
```

### Sample output

```
1 1
5 9
14 36
```

### Hint(s)

Source	UCI XXIV Void Cup 2010
Added by	<b>ejaltuna</b>
Addition date	2011-10-13 06:08:30.0
Time limit (ms)	1000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	131072
Output limit (mb)	64

## Caribbean Online Judge

Size limit (bytes)	100000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text