

Problem 1

In this problem, you are given an integer **N** as input. You are to output the corresponding shape. N would be an odd integer.

Sample Input(s)	Corresponding Output(s)
9	<pre> 1 0 1 1 0 1 0 1 0 1 1 0 1 0 1 0 1 0 1 1 0 1 0 1 1</pre>
7	<pre> 1 0 1 1 0 1 0 1 0 1 1 0 1 0 1 1</pre>
3	<pre> 1 0 1 1</pre>

Problem 2

In this problem, you are given an integer N as input ($N \leq 50$). You are to output the sum of the first N term of the following series:

$$1 + 3^2 - 5^2 - 7 + 9 + 11^2 - 13^2 - 15 + \dots$$

Sample Input(s)	Corresponding Output(s)
8	-76
21	-389
14	592
50	7522