



Introduction

An ancient civilization built an infinite odd numbers pyramid, with the purpose of knowing the civilization-group of each member. They wrote it down on to a stone.

The shaman was the first and his civilization-group was the 1, his family was the third and the fifth and they belonged to the civilization-group 8. This way, they could classify people in civilization-groups. The civilization-group is the sum of all the numbers that are in a row, so for 1 is 1, for 3 & 5 is 8, for 7 & 9 & 11 is 27, and so on...

1:	1	> civilization-group: 1	•
2:	3 5	> civilization-group: 8	;
3:	7 9 11	> civilization-group: 2	7
4:	13 15 17	19> civilization-group: 6	4

HINT: do not try to hardcode all the possible solutions

Input

The input to the problem will be a number that indicates the row number.

Output

Should be the sum of all the odd numbers of the row indicated in the input.

Example 1	Example 2	
Input	Input	
2	12	
Output	Output	
8	1728	