

## Problem Statement

Emma is writing bits (1s and 0s) in her notebook. Every second, she writes more bits.

In the 1<sup>st</sup> second, she writes two bits in her notebook. She starts with 0 and alternates between 0 and 1. They look like this:

```
0 1
```

In the 2<sup>nd</sup> second, she writes three more bits in her notebook. This time, she starts with 1 and keeps alternating between 0 and 1. Now, they look like this:

```
0 1
1 0 1
```

After 6 seconds, her notebook looks like this:

```
0 1
1 0 1
0 1 0 1
1 0 1 0 1
0 1 0 1 0 1
1 0 1 0 1 0 1
```

If you count carefully, you can see that Emma wrote 15 1's in her notebook after 6 seconds. She wants to know how many 1's she can write in  $t$  seconds.

## Input Format

Input contains just one integer:  $t$ .

## Constraints

$$1 \leq t \leq 10^5$$

## Output Format

Print the number of 1's Emma can write in  $t$  seconds.

## Sample Input 1

```
3
```

## Sample Output 1

```
5
```

**Explanation 1** Add one more row to the example of the 2<sup>nd</sup> second above and then you will see five 1's in total.

## Sample Input 2

6

## Sample Output 2

15

**Explanation 2** See the example after 6 seconds above.