Strange Counter

HackerRank

There is a *strange counter*. At the first second, it displays the number 3. Each second, the number displayed by decrements by 1 until it reaches 1. In next second, the timer resets to $2 \times \text{the initial number for the prior cycle}$ and continues counting down. The diagram below shows the counter values for each time t in the first three cycles:

time	value
1	3
2	2
3	1

time	value
4	6
5	5
6	4
7	3
8	2
9	1

time	value
10	12
11	11
12	10
13	9
14	8
15	7
...	...
21	1

Find and print the value displayed by the counter at time t.

Function Description

Complete the *strangeCounter* function in the editor below.

strangeCounter has the following parameter(s):

- *int t:* an integer

Returns

- *int:* the value displayed at time t

Input Format

A single integer, the value of t.

Constraints

- $1 \leq t \leq 10^{12}$

Subtask

- $1 \leq t \leq 10^5$ for 60% of the maximum score.

Sample Input

```
4
```

Sample Output

```
6
```

Explanation

Time $t = 4$ marks the beginning of the second cycle. It is double the number displayed at the beginning of the first cycle: $2 \times 3 = 6$. This is shown in the diagram in the problem statement.