





Strange Counter *

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You have successfully solved Strange Counter

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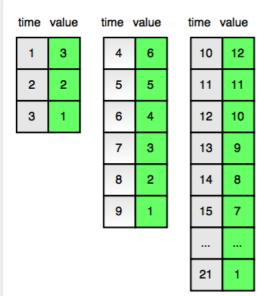
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Bob has a strange counter. At the first second, it displays the number $\bf 3$. Each second, the number displayed by the counter decrements by $\bf 1$ until it reaches $\bf 1$.

The counter counts down in cycles. In next second, the timer resets to $\mathbf{2} \times \mathbf{the}$ 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:



Find and print the value displayed by the counter at time $m{t}$.

Function Description

Complete the strangeCounter function in the editor below. It should return the integer value displayed by the counter at time \boldsymbol{t} . strangeCounter has the following parameter(s):

• t: an integer

Input Format

A single integer denoting the value of $m{t}$.

Constraints

• $1 < t < 10^{12}$



Subtask

• $1 \le t \le 10^5$ for 60% of the maximum score.

Output Format

Print the value displayed by the strange counter at the given time t.

Sample Input

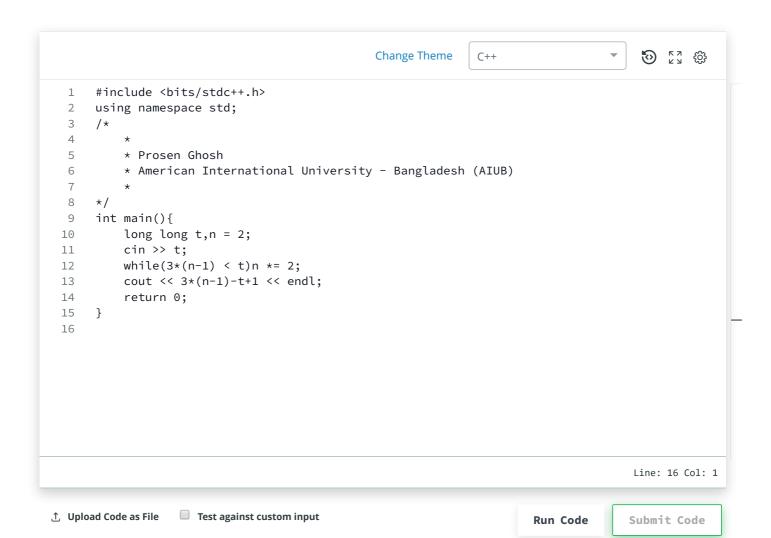
4

Sample Output

6

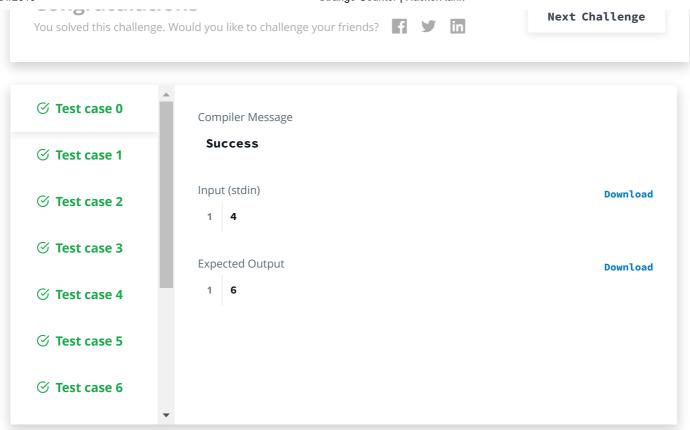
Explanation

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 also shown in the diagram in the Problem Statement above.









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