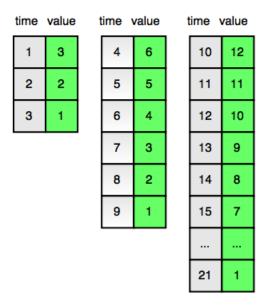
Strange Counter



There is a $strange\ counter$. At the first second, it displays the number ${\bf 3}$. Each second, the number displayed by decrements by ${\bf 1}$ until it reaches ${\bf 1}$. In next second, the timer resets to

2 imes the initial number for the prior cycle and continues counting down. The diagram below shows the counter values for each time <math>t in the first three cycles:



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

ullet int: the value displayed at time $oldsymbol{t}$

Input Format

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

Constraints

• $1 \le t \le 10^{12}$

Subtask

• $1 \le t \le 10^5$ 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.