## Problem L: Bus

A bus with $n$ passengers opens its door at the bus stop. Exactly half of its passengers and an additional half of a passenger get out. On the next stop, again, half of the passengers plus half of a passenger leave the bus. This goes on for $k$ stops in total. Knowing that the bus leaves the last stop empty, and that no one was hurt during the trip, determine the initial number $n$ of people in the bus.

## Input

The first line of input contains the number of test cases $T$. The descriptions of the test cases follow:

The only line of each test case contains the number of stops $k, 1 \leqslant k \leqslant 30$.

## Output

For each test case, output a single line containing a single integer - the initial number of bus passengers.

## Example

| For an example input | the correct answer is: |
| :--- | :--- |
|  |  |
| 2 | 1 |
| 1 | 7 |

