

# Next power of 2

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[English version](#)

For given integer **n** print next power of 2 greater than **n**.

## Input

The first line of the standard input contains one integer **t** ( $t < 10001$ ) which is the number of test cases.

In each of the next **t** lines there is an integer **n** ( $0 \leq n \leq 10^9$ ).

## Output

For each test, print the next power of 2 greater than **n**.

## Example

**Input:**

5  
5  
4  
10  
16  
100

**Output:**

8  
8  
16  
32  
128