

You will be given a list of 32 bit unsigned integers. Flip all the bits (**1**  $\rightarrow$  **0** and **0**  $\rightarrow$  **1**) and print the result as an unsigned integer.

For example, your decimal input  $n = 9_{10} = 1001_2$ . We're working with 32 bits, so:

[illegible]

### Function Description

Complete the *flippingBits* function in the editor below. It should return the unsigned decimal integer result.

flippingBits has the following parameter(s):

- $n$ : an integer

### Input Format

The first line of the input contains  $q$ , the number of queries. Each of the next  $q$  lines contain an integer,  $n$ , to process.

## Constraints

$$\begin{aligned} 1 &\leq q \leq 100 \\ 0 &< n < 2^{32} \end{aligned}$$

### Output Format

Output one line per element from the list with the decimal value of the resulting unsigned integer.

### Sample Input 0

3  
2147483647  
1  
0

### Sample Output 0

2147483648  
4294967294  
4294967295

### Explanation 0

[illegible]

### Sample Input 1

2  
4  
123456

### Sample Output 1

4294967291  
4294843839

### Explanation 1

