You will be given a list of 32 bit unsigned integers. Flip all the bits (1 o 0 and 0 o 1) and return the result as an unsigned integer.

## Example

$$n=9_{10}$$

 $9_{10} = 1001_2$  . We're working with 32 bits, so:

 $0000000000000000000000000001001_2 = 9_{10}$ 

Return 4294967286.

## **Function Description**

Complete the flippingBits function in the editor below.

flippingBits has the following parameter(s):

• int n: an integer

### Returns

• int: the unsigned decimal integer result

## **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

```
1 \leq q \leq 100
```

$$0 \leq n < 2^{32}$$

## Sample Input

3 2147483647

0

Sample Output

2147483648

4294967294

4294967295

## Explanation