https://course.acciojob.com/idle?question=fc94cc5e-7796-4534-9ada-abc2b7ed2938

- EASY
- Max Score: 30 Points

Flipping bits

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

Input Format

The first line of the input contains, an integer q, the number of test cases.

Each test case contains an integer n.

Output Format

For each test case, print a single unsigned integer obtained by flipping the bits.

Example 1

Input

```
3
2147483647
1
0
```

Output

```
2147483648
4294967294
4294967295
```

Explanation

$01111111111111111111111111111111_2 = 2147483647_{10}$ $10000000000000000000000000000000_2 = 2147483648_{10}$

$00000000000000000000000000000001_2 = 1_{10}$ $11111111111111111111111111111110_2 = 4294967294_{10}$

$00000000000000000000000000000000_2 = 0_{10}$ $11111111111111111111111111111111_2 = 4294967295_{10}$

Example 2

Input

```
1
9
```

Output

```
42949672869
```

Explanation

$n = 9_{10}$

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

$00000000000000000000000000001001_2 = 9_{10}$

$11111111111111111111111111110110_2 = 42949672869_{10}$

Constraints

```
1 <= q <= 100
```

`0 <= n < 2^32`

Topic Tags

- **Bit Manipulation**

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
	public static void main (String[] args) throws
java.lang.Exception
	{
		//your code here
		Scanner s=new Scanner(System.in);
		int t=s.nextInt();
		for(int i=0;i<t;i++)
		{
		  long n=s.nextLong();
			n=4294967295L-n;
			System.out.println(n);
		}
	}
}
```