

## 2946 - Inverting the Parity

### Description

You will be given a list a integer numbers between 1 and  $10^5$ . The task is simple: you must change the parity of the numbers in the following way:

- If original number is odd, you must multiply by two until you reach an even result.
- Otherwise if original number is even, you must divide (integer division) by two until you reach an odd result.

Print the result for each number after change their parity.

### Input specification

The first line contain a integer number  $1 \leq T \leq 10^4$ , the amount of numbers in the given list. The following T lines contains a integer number N between 1 and  $10^5$ , the i-th number in the given list.

### Output specification

Print the result for each number after change their parity, one per line, in the given order.

### Sample input

```
5
10
7
13
16
9
```

### Sample output

```
5
14
26
1
18
```

### Hint(s)

## Caribbean Online Judge

Source	Yonny Mondelo Hernández
Added by	<b>ymondelo20</b>
Addition date	2014-06-09
Time limit (ms)	25000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text