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Dashboard > Algorithms > Bit Manipulation > Flipping bits

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## Flipping bits

 by shaka\_shadows

Problem

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You will be given a list of 32 bits unsigned integers. You are required to output the list of the unsigned integers you get by flipping bits in its binary representation (i.e. unset bits must be set, and set bits must be unset).

### Input Format

The first line of the input contains the list size  $T$ , which is followed by  $T$  lines, each line having an integer from the list.

### Constraints

$$1 \leq T \leq 100$$
$$0 \leq \text{integer} < 2^{32}$$

### Output Format

Output one line per element from the list with the requested result.

### Sample Input




```
3
2147483647
1
0
```

### Sample Output

```
2147483648
4294967294
4294967295
```

### Explanation

Take 1 for example, as unsigned 32-bits is 00000000000000000000000000000001 and doing the flipping we get 11111111111111111111111111111110 which in turn is 4294967294.



Submissions: 37088

Max Score: 40

Difficulty: Easy



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Current Buffer (saved locally, editable)  

C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     uint32_t max = 0xFFFFFFFF, number;
11     int n;
12     cin >> n;
13
14     while (n) {
15         cin >> number;
16         cout << (max - number) << "\n";
17         n--;
18     }
19     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
20     return 0;
21 }
22
```

Line: 1 Col: 1

 Upload Code as File Test against custom input

Run Code

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