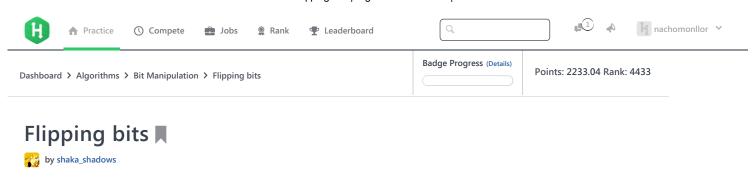
Editorial

**Topics** 



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).

Discussions

#### **Input Format**

Problem

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.

Leaderboard

### Constraints

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

#### **Output Format**

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

Submissions

### **Sample Input**

```
2147483647
```

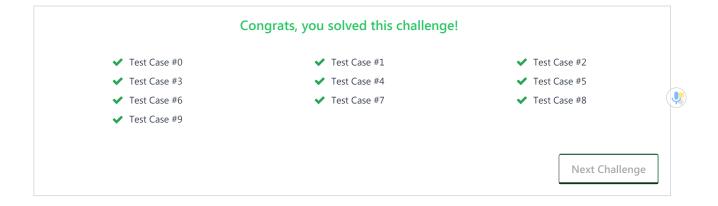
## **Sample Output**

2147483648 4294967294 4294967295

# **Explanation**

```
f ⊌ in
                                                                                Submissions: 35173
                                                                                Max Score: 40
                                                                                Difficulty: Easy
                                                                                Rate This Challenge:
                                                                                \triangle \triangle \triangle \triangle \triangle \triangle
                                                                                Need Help?
                                                                                   Binary
                                                                                More
  Current Buffer (saved locally, editable) & 5
                                                                      C#
                                                                                               Ö
    using System;
    using System.Collections.Generic;
 3
    using System.IO;
 4 v class Solution {
 5
       static void Main(String[] args) {
            s Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be/
```

```
named Solution */
 8
             int t = int.Parse(Console.ReadLine());
 9
10
             while (t-- > 0)
11
12
                 long n = long.Parse(Console.ReadLine());
                 //long \ n = 2147483648;
13
14
                 // long n = 1;
15
16
                 string sbin = Convert.ToString(n, 2);
17
                 sbin = new string('0', 32 - sbin.Length) + sbin;
18
                 char[] bin = sbin.ToCharArray();
19
20
                 // Console.WriteLine(bin);
21
22
                 char[] flip = new char[bin.Length];
23
                 for (int i = 0; i < flip.Length; i++)</pre>
24
25
                      flip[i] = (bin[i] == '1') ? '0' : '1';
26
27
28
                 //Console.WriteLine(new string(flip));
29
30
                 string sfplip = new string(flip);
31
                 int len = sfplip.Length;
32
                 long res = 0;
33
                 while (len > 0)
34
35
                      if (sfplip[sfplip.Length - len] == '1')
36
                          res += (long)Math.Pow(2, len - 1);
37
38
39
                      len--:
40
41
42
                 Console.WriteLine(res);
43
             }
44
45
46
47
48
                                                                                                        Line: 10 Col: 18
                     Test against custom input
1 Upload Code as File
                                                                                              Run Code
                                                                                                           Submit Code
```



Copyright © 2017 HackerRank, All Rights Reserved

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature