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Flipping bits ☆

Problem

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Editorial by shaka_shadows

Nothing special is required to solve this problem. You have only to properly use the '~' bitwise operator. Special care should be taken in languages with no unsigned integers to avoid overflows.



Set by shaka_shadows

Problem Setter's code:

C++

```
#include <cstdio>
using namespace std;

int main() {
    register int N;
    unsigned int x;
    for (scanf("%d", &N); N; --N) {
        scanf("%u", &x);
        printf("%u\n", ~x);
    }
    return 0;
}
```

Problem Tester's code:

Python 2

```
#Another solution
for _ in range(input()):
    s = 2**32 ^ int(raw_input())
    t = str(bin(s))[2:]
    t = t.replace('0','2')
    t = t.replace('1','0')
    t = t.replace('2','1')
    print int(t,2)
```

STATISTICS

Difficulty: Easy

Time Complexity: O(1) per query

Required Knowledge: Bitwise operators

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