

LeetCode

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Week 1: May 1st–May 7th

Problems appear at midnight, Pacific Time

First Bad Version

Jewels and Stones

Ransom Note

Number Complement

First Unique Character in a String

Majority Element

Cousins in Binary Tree

Week 2: May 8th–May 14th

Problems appear at midnight, Pacific Time

Week 3: May 15th–May 21st

The first problem for this section is locked

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Number Complement

Solution

Given a **positive** integer `num`, output its complement number. The complement strategy is to flip the bits of its binary representation.

Example 1:

Input: num = 5

Output: 2

Explanation: The binary representation of 5 is 101 (no leading zero bits), and its complement is 010. So you need to output the integer 2.

Example 2:

Input: num = 1

Output: 0

Explanation: The binary representation of 1 is 1 (no leading zero bits), and its complement is 0. So you need to output the integer 0.

Constraints:

- The given integer `num` is guaranteed to fit within the range of a 32-bit signed integer.
- `num >= 1`
- You could assume no leading zero bit in the integer's binary representation.
- This question is the same as 1009: <https://leetcode.com/problems/complement-of-base-10-integer/>

Java

```
1 class Solution {
2     public int findComplement(int num) {
3         int result=0;
4         int power=1;
5         while(num!=0){
6             result+=(num%2^1)*power;
7             num>>=1;
8             power<<=1;
9         }
10        return result;
11    }
12 }
```

Custom Testcase (Contribute)

Run Code

Submit