



☆ Number Complement



- Coding
Section -

1

The complement of a number is defined here as the number's bitwise inversion from its highest-order 1-bit through its lowest-order bit. For example, the number $n = 5$ is represented as `00000101` in binary. The binary complement of n is `010`, which is 2 in decimal notation.

2

Complete the `getIntegerComplement` function in your editor. It has has one parameter: a base-10 integer, n . This function must return the complement of n as a base-10 integer.

- Test -

3

Input Format

4

Locked stub code in the editor reads a single integer, n from stdin and passes it to the function.

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Constraints

- $0 \leq n \leq 10^5$

6

Output Format

7

Return an integer denoting the complement of n .

8

Sample Input 0

9

50

10

Sample Output 0

11

13

12

Explanation 0

- Extra Credit -

$(50)_{10}$ converts to $(110010)_2$. When we invert each bit in the sequence we get $(001101)_2$, which equals $(13)_{10}$. Thus, we return 13.

13

Sample Input 1

100



27

**Explanation 1**

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$(100)_{10}$ converts to $(1100100)_2$. When we invert each bit in the sequence we get $(0011011)_2$, which equals $(27)_{10}$. Thus, we return 27.

1

2

YOUR ANSWER

- Test -

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour. [Start tour](#)

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- Extra Credit -

13

Original code

Swift



```
1  import Foundation
2
3  /*
4   * Complete the function below.
5   */
6  func getIntegerComplement(n: Int) -> Int {
7
8
9  }
10
11
12
13
14  var _n = 0
15  if let _n_temp = readLine() {
16      _n = Int(_n_temp)!
17  }
18
19  var res = getIntegerComplement(n: _n)
```



- Coding
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- Test -

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- Extra Credit -

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Line: 11 Col: 1

☐ Test against custom input

Run Code

Submit code & Continue

(You can submit any number of times)

[Download sample test cases](#)
Notepad to edit them on windows.

The input/output files have Unix line endings. Do not use

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