Problem 1318: Minimum Flips to Make a OR b Equal to c

Problem Information

Difficulty: Medium
Acceptance Rate: 71.86%
Paid Only: No
Tags: Bit Manipulation

Problem Description

Given 3 positives numbers `a`, `b` and `c`. Return the minimum flips required in some bits of `a` and `b` to make (`a` OR `b` == `c`). (bitwise OR operation). Flip operation consists of change **any** single bit 1 to 0 or change the bit 0 to 1 in their binary representation.

Example 1:

Input: a = 2, b = 6, c = 5 **Output:** 3 **Explanation:** After flips a = 1 , b = 4 , c = 5 such that (a OR b == c)

Example 2:

Input: a = 4, b = 2, c = 7 **Output:** 1

Example 3:

Input: a = 1, b = 2, c = 3 **Output:** 0

Constraints:

* `1 <= a <= 10^9` * `1 <= b <= 10^9` * `1 <= c <= 10^9`

Code Snippets

C++:

```
class Solution {
public:
int minFlips(int a, int b, int c) {

}
};
```

Java:

```
class Solution {
public int minFlips(int a, int b, int c) {

}
}
```

Python3:

```
class Solution:
def minFlips(self, a: int, b: int, c: int) -> int:
```