

## **75 Days of Code**

### **Day 69**

**Problem no : Leetcode 1318**

**Problem Title : Minimum Flips to Make a OR b Equal to c**

**Problem type : Bit manipulation**

**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**

```

function minFlips(a: number, b: number, c: number): number {
    const limit = Math.max(a, b, c);

    let check = 1;
    let result = 0;
    while (check <= limit) {
        if (check & c) {
            if (!(check & a) && !(check & b)) {
                result++;
            }
        } else {
            if (check & a) {
                result++;
            }
            if (check & b) {
                result++;
            }
        }
        check *= 2;
    }
    return result;
}

```

✓ Accepted

Runtime

55 ms

Beats 48.89% of users with TypeScript

Details

Memory

42.56 MB

Beats 75.56% of users with TypeScript