**1318. Minimum Flips to Make a OR b Equal to c :-**

Medium Accepted: 71K Submissions: 100.4K Acceptance Rate: 70.7%

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 :-**

class Solution {

public:

    int minFlips(int a, int b, int c) {

        bool abit, bbit, cbit;

        int ans=0;

        while(a!=0 || b!=0 || c!=0){

            abit = a & 1;   a=a>>1;

            bbit = b & 1;   b=b>>1;

            cbit = c & 1;   c=c>>1;

            if((abit | bbit) != cbit){

                if((abit==1 && bbit==1) && cbit==0){

                    ans = ans + 2;

                    continue;

                }

                ans = ans + 1;

            }

        }

        return ans;

    }

};

**T.C :- O(no. of bits to represent 10^9)**

**S.C :- O(1)**