29th Jan 2023

First :-

Min operations : : Easy

Given two numbers **a** and **b**. In one operation you can pick any non negative integer **x** and either of **a** or **b**. Now if you picked **a** then replace **a** with **a&x** else if you picked **b** then replace **b** with **b&x**.

Return the minimum number of operation required to make **a** and **b** equal.

Note: Here **&** represents bitwise **AND** operation.

Example 1:

```
Input:
a = 5, b = 12
Output:
2
Explanantion:
In first operation replace
a = a&4 = 4
after that replace
b = b&6 = 4
Hence both are same after applying two
operations.
```

Example 2:

```
Input:
a = 100, b = 100
Output:
0
Explanation:
Already same.
```

Your Task:
You don't need to read, input, or print anything. Your task is to complete the function ***solve( )*,** which takes two integers **a** and **b** as input parameters and returns the answer.

Expected Time Complexity: O(1)
Expected Auxiliary Space: O(1)

Constraints:
$0 \leq a, b \leq 10^9$

CODE SECTION :-

```
int solve(int a, int b)
   {
       // code here

       if (a == b)
           return 0;
       if (a > b)
       {
       }

       if ((a & b) == min(a, b))
       {
           return 1;
       }
       else
           return 2;
   }
```

-: DONE FOR TODAY :-