6004. Count Operations to Obtain Zero

My Submissions (/contest/weekly-contest-280/problems/count-operations-to-obtain-zero/submissions/) Back to Contest (/contest/weekly-contest-280/) You are given two non-negative integers num1 and num2. User Accepted: 0 In one **operation**, if num1 >= num2, you must subtract num2 from num1, otherwise subtract num1 from num2. User Tried: 0 • For example, if num1 = 5 and num2 = 4, subtract num2 from num1, thus obtaining num1 = 1 and num2 = 4. However, if num1 = 4 and num2 = 5, after one operation, num1 = 4 and num2 = 1. **Total Accepted:** 0 Return the **number of operations** required to make either num1 = 0 or num2 = 0. **Total Submissions:** 0 Difficulty: (Easy)

Example 1:

```
Input: num1 = 2, num2 = 3
Output: 3
Explanation:
- Operation 1: num1 = 2, num2 = 3. Since num1 < num2, we subtract num1 from num2 and get num1 = 2, num2 = 3 - 2 = 1.
- Operation 2: num1 = 2, num2 = 1. Since num1 > num2, we subtract num2 from num1.
- Operation 3: num1 = 1, num2 = 1. Since num1 == num2, we subtract num2 from num1.
Now num1 = 0 and num2 = 1. Since num1 == 0, we do not need to perform any further operations.
So the total number of operations required is 3.
```

Example 2:

```
Input: num1 = 10, num2 = 10
Output: 1
Explanation:
- Operation 1: num1 = 10, num2 = 10. Since num1 == num2, we subtract num2 from num1 and get num1 = 10 - 10 = 0.
Now num1 = 0 and num2 = 10. Since num1 == 0, we are done.
So the total number of operations required is 1.
```

Constraints:

• 0 <= num1, num2 <= 10⁵

```
JavaScript
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                                                                                                                                C
1 \cdot | const countOperations = (x, y) => {
2
        let res = 0;
        while (x != 0 \&\& y != 0) {
3 ▼
4 •
             if (x \ge y) {
5
                 x -= y;
6 ,
             } else {
7
                 y -= x;
8
             }
9
             res++;
10
11
        return res;
12
    };
```

United States (/region)

Custom Testcase

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