6004. Count Operations to Obtain Zero

My Submissions (/contest/weekly-contest-280/problems/count-operations-to-obtain-zero/submissions/) Back to Co

Back to Contest (/contest/weekly-contest-280/)

You are given two non-negative integers num1 and num2.

In one **operation**, if num1 >= num2, you must subtract num2 from num1, otherwise subtract num1 from num2.

• 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.

Return the **number of operations** required to make either num1 = 0 or num2 = 0.

User Accepted:	9830
User Tried:	10047
Total Accepted:	10096
Total Submissions:	13941
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

```
2 ¢
Java
 1 ▼ class Solution {
 2 ▼
        public int countOperations(int num1, int num2) {
             int count = 0;
 3
 4 •
             while(num1 != 0 && num2 != 0){
 5 •
                 if(num1 >= num2){
                     num1 -= num2:
 6
 7
 8 •
                 else{
 9
                     num2 -= num1;
10
11
                 count++;
12
13
             return(count);
14
        }
15
    }
```

☐ Custom Testcase

Use Example Testcases



Copyright © 2022 LeetCode

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)