CHALLENGE INFORMATION

You have already solved this challenge ! Though you can run the code with different logic !

Course	JAVA	Session	Classes and Objects	Question Information	Level 1 Challenge 42

Problem

Question description

Brody went across the neighbourhood to get some lemonade and he came across a lemonade stand hosting a small contest and if the person who takes the challenge clears it up they get a glass of lemonade for free. The statement of the contest was, given non negative integers u and v $(u \le v)$, and a positive integer w. Among the integers between u and v, inclusive, how many are divisible by w?

Can you help Brody get a nice cool glass of lemonade for free?

Constraints:
$1 \le u, v \le 10^{18}$

$1 \le w \le 10^{18}$

Input Format:
Single line input contains three integers u, v and w separated by space

Output Format:

Print the number of the integers between u and v, inclusive, that are divisible by w.

Test Cases

Logical Test Cases

Test Case 1

INPUT (STDIN)

```
10 100 4
```

EXPECTED OUTPUT

```
23
```

Test Case 2

INPUT (STDIN)

```
8 30 4
```

EXPECTED OUTPUT

```
6
```

Mandatory Test Cases

Test Case 1

KEYWORD

```
private static class
InputNumbers
```

Test Case 2

KEYWORD

```
protected int a,b,c;
```

Test Case 3

KEYWORD

```
InputNumbers obj=new
InputNumbers();
```

Test Case 4

KEYWORD

```
obj.a= sc.nextInt();
```

Test Case 5

KEYWORD

```
obj.c= sc.nextInt();
```

Complexity Test Cases

Test Case 1

Test Case 2

Test Case 3

CYCLOMATIC COMPLEXITY	TOKEN COUNT	NLOC
3	159	26

Code Editor

You have already solved this challenge ! Though you can run the code with different logic !

Code Editor | JAVA SE 1.8 | Light Theme

```java
import java.util.*;
public class Class332241010280 {
    private static class InputNumbers {
        protected int a,b,c;
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        InputNumbers obj=new InputNumbers();
        obj.a= sc.nextInt();
        obj.b= sc.nextInt();
        obj.c= sc.nextInt();
        long result = countDivisibleIntegers(obj.a, obj.b, ob
        System.out.println(result);
    }
    static long countDivisibleIntegers(long u, long v, long w
        long count = (v / w) - ((u - 1) / w);
        return count;
    }
}
```

Custom Input (stdin) | T1 | T2

```
10 100 4
```

Output | MATCH T1 | MATCH T2

```
23
```

Complexity Analysis

Test Case Status