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Exercise: integer division

Finger Exercises due Aug 5, 2020 20:30 -03 Completo

Exercise: integer division

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 4 minutes

Consider the following function definition:

```
def integerDivision(x, a):
    x: a non-negative integer argument
    a: a positive integer argument
    returns: integer, the integer division of x divided by a.
    while x >= a:
        count += 1
        x = x - a
    return count
```

When we call

```
print(integerDivision(5, 3))
```

we get the following error message:

```
File "temp.py", line 9, in integerDivision
    count += 1
UnboundLocalError: local variable 'count' referenced before assignment
```

Your task is to modify the code for integerDivision so that this error does not occur.



```
1 def integerDivision(x, a):
 2
 3
       x: a non-negative integer argument
 4
       a: a positive integer argument
 5
       returns: integer, the integer division of \boldsymbol{x} divided by a.
 6
 7
 8
       count = 0
 9
       while x >= a:
10
           count += 1
11
           x = x - a
12
       return count
13
```

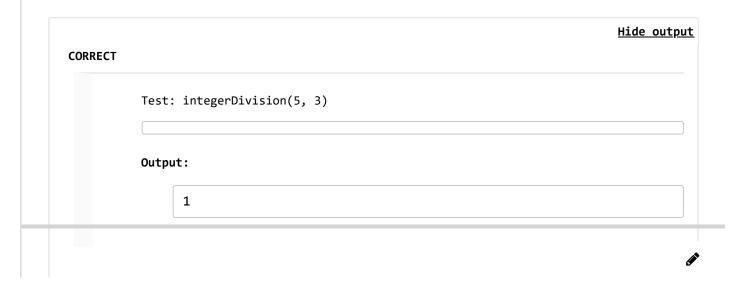
Press ESC then TAB or click outside of the code editor to exit

Correta

```
def integerDivision(x, a):
    """
    x: a non-negative integer argument
    a: a positive integer argument

    returns: integer, the integer division of x divided by a.
    """
    count = 0
    while x >= a:
        count += 1
        x = x - a
    return count
```

Test results



	Output:	
	27	
	Test: integerDivision(29, 2)	
	Output:	
	14	
	Test: integerDivision(4, 7)	
	Output:	
	0	
	Test: integerDivision(29, 10)	
	Output:	
	2	
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Answ	ers are displayed within the problem	
orcica	e: integer division	Ocultar discussão

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