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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
6     returns: integer, the integer division of x divided by a.
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

[Hide output](#)

CORRECT

Test: integerDivision(5, 3)

Output:

1

Test: integerDivision(27, 1)

Output:

27

Test: integerDivision(29, 2)

Output:

14

Test: integerDivision(4, 7)

Output:

0

Test: integerDivision(29, 10)

Output:

2

[Hide output](#)

Enviar

i Answers are displayed within the problem

Exercise: integer division

Ocultar discussão

Topic: Lecture 7 / Exercise: integer division



05/07/2020

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