

Curso > Week 3... > 5. Tupl... > Exercis...

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Exercise: apply to each

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

Exercise: apply to each 1

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 2 minutes

Here is the code for a function applyToEach:

```
def applyToEach(L, f):
    for i in range(len(L)):
        L[i] = f(L[i])
```

Assume that

```
testList = [1, -4, 8, -9]
```

For each of the following questions (which you may assume is evaluated independently of the previous questions, so that testList has the value indicated above), provide an expression using applyToEach, so that after evaluation testList has the indicated value. You may need to write a simple procedure in each question to help with this process.

Example Question:

```
>>> print(testList)
[5, -20, 40, -45]
```

Solution to Example Question

```
def timesFive(a):
    return a * 5
applyToEach(testList, timesFive)
```

```
>>> print(testList)
[1, 4, 8, 9]
```

```
1 # Your Code Here
2 def timesFive(a):
     return abs(a)
4 applyToEach(testList, timesFive)
```

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

Correta

```
applyToEach(testList, abs)
```

Test results



Enviar

1 Answers are displayed within the problem

Exercise: apply to each 2

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 4 minutes

```
>>> print(testList)
[2, -3, 9, -8]
```

```
1 # Your Code Here
2 def minhafuncao(a):
     return a + 1
4 applyToEach(testList, minhafuncao)
```

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

Correta

```
def inc(a):
    return a+1
applyToEach(testList, inc)
```

Test results

<u>Hide output</u> **CORRECT** Testing your response...

Output:

[2, -3, 9, -8]

Hide output

Enviar

1 Answers are displayed within the problem

Exercise: apply to each 3

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 4 minutes

```
>>> print testList
[1, 16, 64, 81]
```

```
1 # Your Code Here
2 def minhafuncao(a):
     return a ** 2
4 applyToEach(testList, minhafuncao)
```

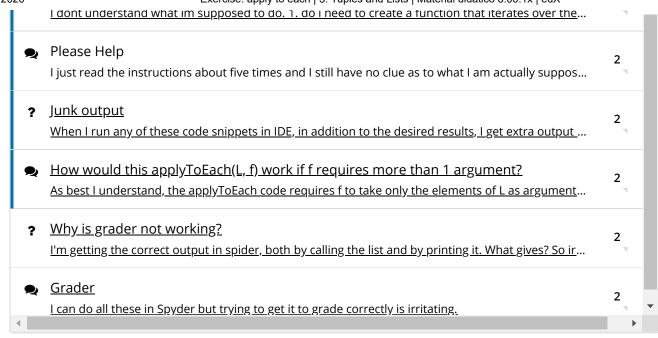
Press ESC then TAB or click outside of the code editor to exit

Correta

```
def square(a):
    return a * a
applyToEach(testList, square)
```

Test results

CORRECT						<u>H</u>	<u>ide out</u> p
	Testi	ng your respo	onse				
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