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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):  
3     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

[Hide output](#)

CORRECT

Testing your response...

Output:

```
[1, 4, 8, 9]
```

[Hide out](#)



Enviar

i 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):
3     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

CORRECT

[Hide output](#)

Testing your response...



Output:`[2, -3, 9, -8]`[Hide output](#)Enviar

i 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):  
3     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

Testing your response...

Output:

[1, 16, 64, 81]

Hide output










Enviar

 Answers are displayed within the problem

Exercise: apply to each

Ocultar discussão

Topic: Lecture 5 / Exercise: apply to each

Show all posts	▼	por atividade recente	▼
	Questions	3	▲
For question 1, is L supposed to be defined in the script? Also, should abs be used like this? apply...			
	Suspect Issue with Grader or Spyder	2	▼
So, I got all of these within the automatic grader. Full credit, not too much trouble. However, the s...			
	Why is the wrapper function necessary in no. 1?	3	▼
For the first exercise, I wrote a code using a separate wrapper function to return the absolute val...			
	lambda	3 new_	
Python provides a very convenient way to define an anonymous function applyToEach(testList, la...			
	Confused w difference between += and +	4	▼
For exercise apply to each 2, my initial code was def plusOne(a): return a+=1 applyToEach(testList...			
	Whooosh!	1 new_	
Can't even begin to understand the question, so I thought I would run the example code, but it cr...			
	Spyder doesnt agree with grader, grader doesnt agree with spyder	2	▼
I ran mv code and got the right answer for exercise 2 in spyder: def veahOk(L): Result=[] for i in ra...			
	Dont understand what needs to be done	2	

I dont understand what im supposed to do. 1. do i need to create a function that iterates over the...



Please Help

2

I just read the instructions about five times and I still have no clue as to what I am actually suppos...



Junk output

2

When I run any of these code snippets in IDE, in addition to the desired results, I get extra output ...



How would this `applyToEach(L, f)` work if `f` requires more than 1 argument?

2

As best I understand, the `applyToEach` code requires `f` to take only the elements of `L` as argument...



Why is grader not working?

2

I'm getting the correct output in spider, both by calling the list and by printing it. What gives? So ir...



Grader

2

I can do all these in Spyder but trying to get it to grade correctly is irritating.

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