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Exercise 3

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

Exercise 3

8/8 points (graded)

ESTIMATED TIME TO COMPLETE: 6 minutes

Consider the function normalize that takes as input a list of positive numbers numbers and returns a list of numbers that are a fraction of the maximum element in the list. Try to answer the questions without running the code. Check your answers, then run the code for the ones you get wrong. You'll learn the most this way, by figuring things out, instead of just running the code and reading off the answers.

```
def normalize(numbers):
    max_number = max(numbers)
    for i in range(len(numbers)):
        numbers[i] /= float(max_number)
    return numbers
```

The code below tries to call normalize with one particular input. Answer the next 5 questions based on the following code.

```
try:
    normalize([0, 0, 0])
except ZeroDivisionError:
    print('Invalid maximum element')
```

1. Does the try block throw (also known as raise) an exception?

	at is the name of the exception the code is trying to catch?
	eroDivisionError • • • • • • • • • • • • • • • • • •
Ans	swer: ZeroDivisionError
Wh	at is the output?
In	nvalid maximum element
Ans	swer: Invalid maximum element
kno	ce we are dividing by the maximum element in a list of positive numbers, by that normalize will return a value between 0 and 1. What type of conchis? pre condition
kno	ow that normalize will return a value between 0 and 1. What type of conc his?
kno	ow that normalize will return a value between 0 and 1. What type of conchis? pre condition
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kno is th We war	ow that normalize will return a value between 0 and 1. What type of conchis? pre condition post condition also know the result is not meaningful when the maximum element is 0, not to ensure that the numbers in the list do not violate this. What type of
kno is th We war	ow that normalize will return a value between 0 and 1. What type of conchis? pre condition post condition also know the result is not meaningful when the maximum element is 0, not to ensure that the numbers in the list do not violate this. What type of adition is this?

```
def normalize(numbers):
    max_number = max(numbers)
    assert(max_number != 0), "Cannot divide by 0"
    for i in range(len(numbers)):
        numbers[i] /= float(max_number)
```

An

<pre>assert(0.0 <= numbers[i] <= 1.0), "output not between 0 return numbers</pre>	and 1"
swer the next 3 questions based on this code.	
1. Which condition does the line assert(max_number != 0) correction	espond to?
opost condition	
2. Which condition does the line assert(0.0 <= numbers[i] <= 1 pre condition	0) correspond to?
post condition✓3. What does the function call normalize([0, 0, 0]) print out?	
Cannot divide by 0 Answer: AssertionError: Cannot divide by 0	✓
Enviar	
Answers are displayed within the problem	
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