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Exercise 2

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

Exercise 2

11/11 points (graded)
ESTIMATED TIME TO COMPLETE: 14 minutes

Below are some short Python programs. For each program, answer the associated question.

Try to answer the questions without running the code. Check your answers, then run the code for the ones you get wrong.

These questions will ask you to write what the code prints out. If an exception is raised that is not handled by the code write "error" (no quotes), in addition to any other text that is output.

The function in the following questions takes a list of integers `numbers` and a position `index`, and divides each entry in the list of numbers by the value at entry `index`.

Write what it prints out, separating what appears on a new line by a comma and a space.

1.

```python
def fancy_divide(numbers,index):
    try:
        denom = numbers[index]
        for i in range(len(numbers)):
            numbers[i] /= denom
    except IndexError:
        print("-1")
    else:
        print("1")
    finally:
        print("0")
```

What does `fancy_divide([0, 2, 4], 1)` print out?

1, 0

✔ **Answer:** 1, 0

What does `fancy_divide([0, 2, 4], 4)` print out?

-1, 0

✔ **Answer:** -1, 0

What does `fancy_divide([0, 2, 4], 0)` print out?

0, error

✔ **Answer:** 0, error

2.
```python
def fancy_divide(numbers, index):
    try:
        denom = numbers[index]
        for i in range(len(numbers)):
            numbers[i] /= denom
    except IndexError:
        fancy_divide(numbers, len(numbers) - 1)
    except ZeroDivisionError:
        print("-2")
    else:
        print("1")
    finally:
        print("0")
```

What does `fancy_divide([0, 2, 4], 1)` print out?

1, 0

✔ **Answer:** 1, 0

What does `fancy_divide([0, 2, 4], 4)` print out?

1, 0, 0

✔ **Answer:** 1, 0, 0

What does `fancy_divide([0, 2, 4], 0)` print out?

-2, 0

✔ **Answer:** -2, 0

3.

```python
def fancy_divide(numbers, index):
    try:
        try:
            denom = numbers[index]
            for i in range(len(numbers)):
                numbers[i] /= denom
        except IndexError:
            fancy_divide(numbers, len(numbers) - 1)
        else:
            print("1")
        finally:
            print("0")
    except ZeroDivisionError:
        print("-2")
```

What does `fancy_divide([0, 2, 4], 1)` print out?

1, 0

✔ **Answer:** 1, 0

What does `fancy_divide([0, 2, 4], 4)` print out?

1, 0, 0

✔ **Answer:** 1, 0, 0

What does `fancy_divide([0, 2, 4], 0)` print out?

0, 2

✔ **Answer:** 0, -2

4.
```python
def fancy_divide(list_of_numbers, index):
    try:
        try:
            raise Exception("0")
        finally:
            denom = list_of_numbers[index]
            for i in range(len(list_of_numbers)):
                list_of_numbers[i] /= denom
    except Exception as ex:
        print(ex)
```

Does this code print 0 when you call `fancy_divide([0, 2, 4], 0)` ?

◯ Yes.

🔘 No.

✔

5.
```python
def fancy_divide(list_of_numbers, index):
    try:
        try:
            denom = list_of_numbers[index]
            for i in range(len(list_of_numbers)):
                list_of_numbers[i] /= denom
        finally:
            raise Exception("0")
    except Exception as ex:
        print(ex)
```

Does this print 0 when you call `fancy_divide([0, 2, 4], 0)` ?

🔘 Yes.

◯ No.

✔

Enviar

✏

ⓘ Answers are displayed within the problem

Exercise 2

Topic: Lecture 8 / Exercise 2

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?	**Why does 'finally' clause execute even with an unhandled exception?** In question 1, part 3, why does \`fancy_divide([0,2,4], 0)\` print \`0, error\`, instead of just \`error\`? Sho…	**3**
?	**What does raise Exception("0") mean?** I might have missed this throughout the course, but what does raise Exception("0") mean. More spec…	**2**
💬	**I am missing something** I have got most of these wrong apparently. Why does the first one not print out [0, 1, 2], 0? The try st…	**2**
💬	**What is: except Exception as ex** Does this just make ex the string after an exception? I am confused by this a bit, not sure if I missed i…	**5**
💬	**For questions 2 and 3, why is the answer to "What does fancy_divide([0, 2, 4], 4) print out?" 1,0,0?** Shouldn't it be 0, 1, 0?	**3**

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