On Thursday, February 16th at 6:00AM EST, UTC-5, we will be conducting a brief database maintenance. The event should last about 5 minutes.

Exercise 2

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Exercise 2

11 points possible (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 appear on a new line by a comma and a space.

1.
```
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")
```

Problem Set due Feb 23, 2017 15:30 PST

- Midterm Exam
- Week 5: Object Oriented Programming
- Sandbox

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

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

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

2.

```
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?

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

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

3.

```
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?

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

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

4.

```
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.

```
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.

Submit

Exercise 2

Topic: Lecture 8 / Exercise 2

Show Discussion