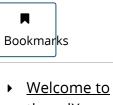
On Thursday, February 16th at 6:00AM EST, UTC-5, we will be conducting a brief database maintenance. The event should last about 5 minutes.



MITx: 6.00.1x Introduction to Computer Science and Programming U..

<u>Help</u>



Week 4: Good Programming Practices > 8. Exceptions and Assertions > Exercise 2

## Exercise 2

1.

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## the edX Exercise 2 Platform

11 points possible (graded)

## **ESTIMATED TIME TO COMPLETE: 14 minutes**

Entrance Survey

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

Download Python and Get Motivated!

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

▶ Week 1: Python Basics 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.

▶ Week 2: Simple **Programs** 

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.

▶ Week 3: **Structured Types** 

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

▼ Week 4: Good

**Programming Practices** 

7. Testing and Debugging

Finger Exercises

8. Exceptions and **Assertions** 

Finger Exercises

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")

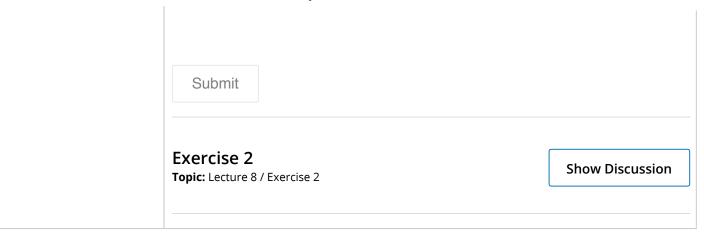
Problem Set 4

Problem Set due Feb What does fancy\_divide([0, 2, 4], 1) print out? 23, 2017 15:30 PST Midterm Exam Week 5: Object What does fancy\_divide([0, 2, 4], 4) print out? Oriented **Programming** Sandbox 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.
```

```
Exercise 2 | 8. Exceptions and Assertions | 6.00.1x Courseware | edX
   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.
```



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