



< Previous



Next >

Exercise 2

🔖 Bookmark this page

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.

```
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



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

-1, 0



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

0, error



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?

1, 0



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

1, 0, 0



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

-2, 0



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?

1, 0



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

1, 0, 0



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

0, -2



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

Hide Discussion

< Previous

Next >

© All Rights Reserved



edX

[About](#)

[Affiliates](#)

[edX for Business](#)

[Open edX](#)

[Careers](#)

[News](#)

Legal

[Terms of Service & Honor Code](#)

[Privacy Policy](#)

[Accessibility Policy](#)

[Trademark Policy](#)

[Sitemap](#)

 Hide Notes

Connect

[Blog](#)

[Contact Us](#)

[Help Center](#)

[Media Kit](#)



© 2022 edX LLC. All rights reserved.
深圳市恒宇博科技有限公司 [粤ICP备17044299号-2](#)