

Week 05: Problem Set

Due: 2023-02-17 23:59:00

Description: Chapter 5 problem set with review questions

Self Grade: 0 of 12 = 0.0%

You have marked this assignment Finished. Click to mark it

In Progress

Questions

Not yet
graded

p9-4: A named sequence of statements that returns a result is known as which of the following?

- ☐ A. definition
- ☐ B. procedure
- ☐ C. turtle
- ☐ D. module
- ☒ E. function

Check Me

Compare me

✓ Correct! A function is a named sequence of statements that returns a result.

Activity: 5.14.4 Multiple Choice (funcEx_4)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#funcEx_4)

Not yet
graded

Q-7: Which of the following would NOT work as a variable name?

- ☐ A. a
- ☒ B. len
- ☐ C. length
- ☐ D. x

Check Me

Compare me

✓ Correct! This would not work as a variable name because it is already reserved as a built-in function name.

Activity: 5.14.7 Multiple Choice (funcEx_7)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#funcEx_7)

Not yet
graded

Q-8: Consider the code below. What prints?

```
1print(int(33.7))
```

- ☐ A. 34.0
- ☐ B. 34
- ☐ C. 33.70
- ☒ D. 33

Check Me

Compare me

✓ Correct! The int function always truncates floating point numbers.

Activity: 5.14.8 Multiple Choice (functEx_8)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#functEx_8)

Not yet graded

Use a built-in function to print out the length of `sentence_a` . Note: there are three extra code blocks.

Drag from here

1 | `print(sentence_a)`

2 | `sentence_a = I love Python!`

3 | `length_sentence_a =`
`length(sentence_a)`

Drop blocks here

4 | `sentence_a = "I love Python!"`

5 | `length_sentence_a = len(sentence_a)`

6 | `print(length_sentence_a)`

Check

Reset

Help me

Parsons (functEx1muc)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/mixedupcode.html#functEx1muc)

Not yet graded

Q-1: What is returned from `3 % 4`?

- ☐ A. 0
- ☐ B. 1
- ☐ C. 2
- ☐ D. 3
- ☐ E. 4

Check Me

Compare me

Activity: 1 Multiple Choice (pi-basics-modulo-v3)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#pi-basics-modulo-v3)

Not yet graded

Q-1: What is the value of `w` after the following code executes?

```
1 x = 7
2 y = 5
3 z = y
4 y = 3
5 w = x / z
```

- ☐ A. 1
- ☐ B. 1.4
- ☐ C. 1.5
- ☐ D. 2
- ☐ E. 2.3333333333333335

Check Me

Compare me

Activity: 1 Multiple Choice (pi-basics-div-vars-v3)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#pi-basics-div-vars-v3)

Not yet graded

Q-1: What is the value of the following expression?

16 - 3 * 3 // 2 + 1

- ☒ A. 13
- ☐ B. 20
- ☐ C. 4
- ☐ D. 12.5
- ☐ E. 14

Check Me

Compare me

✓ This is correct. Using parentheses, the expression is evaluated as (3 * 3 = 9), (9 // 2 = 4), (16 - 4 = 12), and (12 + 1 = 13).

Activity: 1 Multiple Choice (pi-basics-order-op-v2)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#pi-basics-order-op-v2)

Not yet graded

Q-1: Which of the following is **not** a boolean expression?

- ☐ A. True
- ☐ B. 3 == 4
- ☒ C. 3 + 4
- ☐ D. 3 + 4 == 7

Check Me

Compare me

✓ This is correct. Three plus four evaluates to seven, which is a number, not a Boolean value.

Activity: 1 Multiple Choice (cndtnl-ex-mc-bool-v2)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#cndtnl-ex-mc-bool-v2)

Not yet graded

Q-1: What does the following code print?

```
if 4 + 5 == 10:
    print("TRUE")
else:
    print("FALSE")
print("TRUE")
```

- a. TRUE
- b. TRUE
FALSE
- c. FALSE
TRUE
- d. TRUE
FALSE
TRUE

- ☐ A. Output a
- ☐ B. Output b
- ☒ C. Output c
- ☐ D. Output d

Check Me Compare me

✓ This is correct. Python will print FALSE from within the else-block (because 5+4 does not equal 10), and then print TRUE after the if-else statement completes.

Activity: 1 Multiple Choice (cndtnl-ex-mc-output-v2)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#cndtnl-ex-mc-output-v2)

Not yet graded

Q-1: Which of the following is true about the code below?

```
if (x > 2):
    x = x * 2
if (x > 4):
    x = 0
print(x)
```

- ☐ A. x will be the same after code executes
- ☐ B. If x > 2, end result of x is x doubled
- ☒ C. If x > 4, end result of x is always 0

Check Me Compare me

✓ This is correct.

Activity: 1 Multiple Choice (cndtnl-ex-mc-ifs-v2)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#cndtnl-ex-mc-ifs-v2)

Not yet graded

Q-1: What is the total ?

```
weight = 3
numItems = 12
if weight < 1:
    price = 1.45
if weight >= 1:
    price = 1.15
total = weight * price
if numItems >= 10:
    total = total * 0.9
```

- ☐ A. 3.45
- ☐ B. 3.11
- ☐ C. 3.10
- ☒ D. 3.105

Check Me

Compare me

✓ This is correct. The total is 3 times 1.15 times 0.9.

Activity: 1 Multiple Choice (cndtnl-ex-mc-weight-v2)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#cndtnl-ex-mc-weight-v2)

Not yet graded

Q-1: Given two variables, num1 and num2 , which of the following would mean that both num1 and num2 are positive integers?

- ☐ A. if (num1 = num2) and (num2 > 0)
- ☐ B. if (num1 == num2) and (num1 < 0)
- ☐ C. if (num1 == num2) or (num1 ≠ num2)
- ☐ D. if (num1 == num2) AND (num2 > 0)
- ☒ E. if (num1 == num2) and (num2 > 0)

Check Me

Compare me

✓ This is correct. If num1 is equal to num2 and num2 is greater than 0, then both values must be positive.

Activity: 1 Multiple Choice (cndtnl-ex-mc-equal-v2)

Question in Context (/ns/books/published/cmssc-210-spring-2023/functions/Exercises.html#cndtnl-ex-mc-equal-v2)

You have marked this assignment Finished. Click to mark it

In Progress

This assignment is graded and is no longer accepting submissions. You can still do the work, but it is up to your instructor whether they will accept it or not.

© [Runestone Academy](#)