Computer Science Quiz:

Functions: Part 1.

1) Functions are called using their name followed by parentheses. All of the following are examples of this except

A) z = math.sqrt(9)

B) exit()

C) x = a \* 2

D) pen.right(90)

2) Function names should be all of the following except

A) action verbs or verb phrases

B) capitalized

C) informative

D) followed by parentheses

3) What does this program print?

def lesser(a,b):

if a < b:

return a

else:

return b

lesser(6, 4)

A) 4

B) 6

C) nothing

D) lesser

4) This is a nonsense program. What does it print?

def foo(a,b):

if a < b:

return a+b

elif b < a:

return a-b

return -1

print(foo(10, 5))

A) 15

B) 5

C) -1

D) nothing

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) Arguments are like mailboxes that you have to put information in to tell a function how to do its job. Identify the argument in the following code.

def myFunction(food):

for x in food:

print(x)

A) myFunction

B) x

C) print

D) food

6) A variable is passed to the function as the argument in the following program. What is that variable?

def myFunction(food):

for x in food:

print(x)

fruits = ["apple", "banana", "cherry"]

myFunction(fruits)

A) x

B) fruits

C) myFunction

D) apple

7) The following function is supposed to multiply its input (the argument it’s given) by a random number and return the result, but it has one flaw

import random

def multiplyRandom():

return x \* random.random()

x = 6

print(multiplyRandom(x))

The flaw is:

A) The function returns nothing

B) The function needs an argument

C) The function needs to use int()

D) return needs parentheses

8) What does this code print?

def absoluteValue(x):

if x < 0:

return -x

else:

return x

x = -2

x = absoluteValue(x)

print(x)

A) x

B) nothing

C) -2

D) 2

9) What does this code print?

def evensOnly(x):

#check if x is even

if x%2 == 0:

return x

else:

return x+1

x = 7

evensOnly(x)

A) x

B) nothing

C) 7

D) 8

10) Write a line of code or two that calls the function in question 9 and prints the result.

11) Circle the line of code that is broken in this program.

import random

def rockPaperScissors():

x = random.randint(1,3)

if x==1:

return “rock”

elif x==2:

return “paper”

else x==3:

return “scissors”

choice = rockPaperScissors()

print(choice)

12) Write a function that prints “equal” if the function’s two arguments are equal and prints “not equal” otherwise.