Computer Science Quiz:

Functions: Part 2.

1) A function **call** is a command to activate a function.

A function **definition** is a set of instructions for what to do when a function is called.

Which has to appear earlier (closer to the top) of your Python program?

2) Define a function that prints "Hello!" when called.

3) Define a function that returns "Hello, Neal" when called.

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

4) Define a function that takes one argument named name and returns "Hello, \_\_\_\_\_" with the blank filled in with the value of the variable name.

5) Give an example of a line of code that **calls** the function that you wrote in the previous function with the argument "SpongeBob"

The following program defines a function, calls it, and saves the result in a variable. Answer each of the following questions about this program.

**def applyCoupon(price, discount):**

**reduction = price \* discount**

**new\_price = price - reduction**

**return new\_price**

**price\_tag = 12.00**

**sales\_price = applyCoupon(price\_tag, 0.1)**

**print(“Price after 10% off: $”+str(sales\_price))**

6) Arguments are like mailboxes that you have to put information in to tell a function how to do its job. How many arguments does applyCoupon have?

7) What does the program in question 6 print?

8) If the print line of code was changed to this,

**print(“Price after 10% off: $”+str(price\_tag))**

what would happen?

A) The program would print the same thing as before the change.

B) The program would print $12.00 instead of the new price.

C) The program would throw a NameError

D) The program would develop a taste for human flesh

9) Function names should be

- verbs or verb phrases

- short for convenience

- informative

How do each of the following alternative function names perform? Put a plus sign + if they meet the criteria and a minus sign – if they don’t.

Option 1: applyCoupon

\_\_\_\_\_verbs or verb phrases

\_\_\_\_\_short for convenience

\_\_\_\_\_informative

Option 2: coupon

\_\_\_\_\_verbs or verb phrases

\_\_\_\_\_short for convenience

\_\_\_\_\_informative

Option 3: doMoneyThing

\_\_\_\_\_verbs or verb phrases

\_\_\_\_\_short for convenience

\_\_\_\_\_informative