Computer Science Quiz:

While Loops: Part 2

1) What does this code do?

number = 10

while number < 21:

print(number)

number = number + 2

A) Prints 10 12 14 16 18

B) Prints 10 12 14 16 18 20

C) Adds up 10+12+14+16+18

D) Adds up 10+12+14+16+18+20

2) What does this code print?

i = 4

while i < 100:

i = i\*2

if i > 30:

print(i)

A) 4 8 16 32 64

B) 4 8 16 32 64 100

C) 4 8 16

D) 32 64

3) Translate this while loop into a for loop.

x = 0

while x<5:

print(x)

x = x+1

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

4) Translate this for loop into a while loop.

for i in range(2, 18, 4):

print(i)

5) How many times can you get the wrong answer before this program ends?

answer = input("What’s the capital of Canada?")

lives = 9

while answer != "Ottowa" and lives > 0:

answer = input("What is the capital of Canada?")

lives = lives – 3

A) 2

B) 3

C) 4

D) 9

6) Fill in the blanks to write a program that adds the letter s to the word necessary (or is it necesarry? Or necesssary?) until the user says stop.

start = "nece"

middle = ""

end = "aray"

print(start+middle+end)

user = input("more or stop?")

while \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:

print(start+middle+end)

middle = middle+"s"

user = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

print(start+middle+end)

7) Fill in the blank to create a program that asks the user their favorite color then repeats until they admit that their favorite color is red.

color = input("favorite color?")

while \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:

color = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

print("I knew you liked red")

8) Fill in the blank to create a program that guesses a coin flip correctly or acts belligerent.

print("I call heads")

#After this next line of code, flip will

#equal heads or tails

flip = random.choice(["heads","tails"])

if \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:

print("I win!")

\_\_\_\_\_\_\_\_\_\_\_\_\_\_:

print("By heads I meant tails")

print("Everyone knows you call")

print("the side that wins for the")

print("other person.")

print("No, you’re a cheater!")

9) Joke: The programmer's spouse says, "Go to the store, get some bread, and while you're there pick up some eggs."

The programmer never came back from the store.

What should the spouse have said to prevent this tragedy? The following code may help:

groceries = [ ]

location = "store"

groceries.append("bread")

while location == "store":

groceries.append("eggs")

location = "home"