Test 4

Due No due date   **Points** 20   **Questions** 20   **Time Limit** None
Allowed Attempts Unlimited

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Attempt History

	Attempt	Time	Score
LATEST	**Attempt 2**	12 minutes	20 out of 20
	Attempt 1	18 minutes	17.27 out of 20

Score for this attempt: **20** out of 20
Submitted Nov 7 at 7:21am
This attempt took 12 minutes.

Question 1   **1 / 1 pts**

Match the following definitions:

A loop is a statement used to [Select] program commands.

We [Select] a variable to prevent junk values from being stored in them.

num < 19 is an example of a [Select] .

It is important to use loops to repeat code because we want programs to be [Select] .

Answer 1:

Correct!   repeat

Answer 2:

Correct!   initialize

Answer 3:

Correct!   condition

Answer 4:

Correct!   efficient

Question 2   1 / 1 pts

c = c + 1 is called a(n) _____.

- ( ) input variable

- ( ) float

Correct!   (•) count variable

- ( ) variable

Question 3   1 / 1 pts

What is output? Select all that apply.

```
c = 6

while (c > 0):
    print (c)
    c = c - 2
```

	3
Correct!	✔ 2
Correct!	✔ 4
	5
Correct!	✔ 6
	1
	0

Question 4   **1 / 1 pts**

What is output? Select all that apply.

```
c = 0

while (c < 5):
    c = c + 1
    print (c)
```

Correct!	✔ 3
Correct!	✔ 4
Correct!	✔ 2
	6
	0
Correct!	✔ 5

Correct!

☑ 1

Question 5

1 / 1 pts

Which loop prints the numbers 1, 2...100?

○
```
c = 1

while (c < 101):
    c = c + 1
    print (c)
```

○
```
c = 1

while (c <= 100):
    c = c + 1
    print (c)
```

Correct!

◉
```
c = 1

while (c <= 100):
    print (c)
    c = c + 1
```

○
```
c = 1

while (c < 100):
    c = c + 1
    print (c)
```

Question 6

1 / 1 pts

Ask the user to input a number less than 100. Print all the numbers from that number to 100.

Which loop correctly does this?

```
num = int (input("Enter a number between 1 and 100: "))
c = num

while (num <= c):
    print (c)
    c = c + 1
```

Correct!

```
num = int (input("Enter a number between 1 and 100: "))
c = num

while (c <= 100):
    print (c)
    c = c + 1
```

```
num = int (input("Enter a number between 1 and 100: "))
c = num

while (c > 100):
    print (c)
    c = c + 1
```

```
num = int (input("Enter a number between 1 and 100: "))
c = num

while (c <= num):
    print (c)
    c = c + 1
```

Question 7

1 / 1 pts

Write a program that asks the user for their name and how many times to

print it.

If I enter Ada and 3 it should print:

> Ada
> Ada
> Ada

Which loop correctly does this?

```
num = int (input("Enter a number: "))
name = input ("Enter your name: ")

c = 1

while (c <= num):
    print (name)
```

```
num = int (input("Enter a number: "))
name = input ("Enter your name: ")

c = 1

while (num <= name):
    print (name)
    c = c + 1
```

Correct!

```
num = int (input("Enter a number: "))
name = input ("Enter your name: ")

c = 1

while (c <= num):
    print (name)
    c = c + 1
```

```
num = int (input("Enter a number: "))
name = input ("Enter your name: ")

c = 1

while (c > num):
    print (name)
    c = c + 1
```

Question 8

1 / 1 pts

Consider the following output:

  2 3 4 5 6

Put the following code in order from first step to last step of execution. Select the answer that best simulates how to get the printed order above.

```
print (c)
```

```
while (c < 6):
```

```
c = c + 1
```

```
c = 1
```

```
c = 1
c = c + 1
print (c)
while (c < 6):
```

```
c = 1
while (c < 6):
print (c)
c = c + 1
```

```
print (c)
while (c < 6):
c = c + 1
c = 1
```

Correct!

```
c = 1
while (c < 6):
c = c + 1
print (c)
```

Question 9   **1 / 1 pts**

Consider the following code:

```
x = 2

while (x < 11):
    x = x * 2
    print (x)
```

What is output?

2
4
6
8
10

4
6
8
10
12

Correct!

4
8
16

2
4
○ 8

Question 10

1 / 1 pts

Consider the following code:

```
x = 0

while (x != 19):
    print (x)
```

What is the error?

○ The `x = 19` is missing so the loop will never run.

○ There is no error, the code runs without problems.

○ The `!=` is incorrect.

Correct!   ● There is no `x = x + 1` so the loop will never stop.

Question 11

1 / 1 pts

Consider the following code:

```
x = 0

while (x > -13):
    x = x - 2
    print (x)
```

What is the error?

The `x = -13` is missing so the loop will never run.

Correct!   ● There is no error, the code runs without problems.

You cannot do `x = x - 2`

The `>` is incorrect.

Question 12   1 / 1 pts

The code `sum = sum + num` is used to _____.

Correct!   ● add up a list of numbers

○ count how many times a loop repeats

○ declare a variable

○ ask the user for input

Question 13   1 / 1 pts

What does the following loop do?

```
val = 0
sum = 0

while (val < 10):
    val = val + 1
    sum = sum + val
print (sum)
```

○ Print the numbers backwards from 10 to 1.

○ Print the numbers from 1 to 10.

Correct!

◉ Print the sum of the numbers from 1 to 10.

○ Finds the average of the numbers between 1 and 10.

Question 14   1 / 1 pts

Consider the following code:

```
val = 0

while (val < 10):
   val = val - 1
   print (val)
```

What is the error?

○ It should be val > 17

Correct!

◉ The loop will not stop since val is counting the wrong direction.

○ There is no error.

○ The loop will not stop because val never changes.

Question 15   1 / 1 pts

You are writing a loop to print a word entered from the keyboard 15 times. Which of the following is true?

○ This will be a loop stopped by user input.

Correct!

(●) This will be a loop stopped by counting.

(○) The loop runs until the sum is greater than 100.

(○) None of the above.

Question 16   **1 / 1 pts**

Consider the following number sequence:

-1 2 -3 4 -5 6 ___ ___ ___

What are the next three numbers in the sequence?

Correct!

(●) -7 8 -9

(○) 7 8 9

(○) 7 -8 9

(○) -7 -8 -9

Question 17   **1 / 1 pts**

For a loop to stop the loop control variable must _____.

(○) change

Correct!

(●) change inside the loop

(○) be true

(○) be input from the keyboard

Question 18   1 / 1 pts

To print the even numbers between -20 and 20 you would use:

Correct!   ⦿ x = x + 2

                      ◯ x = x - 5

                      ◯ x = x + 1

                      ◯ x = x - 1

Question 19   1 / 1 pts

In a(n) _____ loop you do not know ahead of time how many
times the loop will repeat.

                      ◯ condition

                      ◯ count variable

                      ◯ initialization

Correct!   ⦿ user input

Question 20   1 / 1 pts

Consider the following code:

```
val = 1
sum = 0

while (val < 10):
    val = val * 2
    sum = sum + val

print (sum)
```

What is output?

○ 0

○ 11

Correct!   ● 30

○ 35

Quiz Score: **20** out of 20