

Mission 5 - Dance Bot Review Questions

What is the purpose of a variable ?	<ul style="list-style-type: none"> a. To repeat a block of code b. To use some memory to store a value c. To organize your program into chunks of code d. To wait until a button is pressed
What is the purpose of a loop ?	<ul style="list-style-type: none"> a. To repeat a block of code b. To use some memory to store a value c. To organize your program into chunks of code d. To wait until a button is pressed
What is the purpose of a function ?	<ul style="list-style-type: none"> a. To repeat a block of code b. To use some memory to store a value c. To organize your program into chunks of code d. To wait until a button is pressed
Code that runs one line at a time in order is:	<ul style="list-style-type: none"> a. Iterative b. Sequential c. Conditional d. Consistent
Code that repeats across a range of numbers or sequence is:	<ul style="list-style-type: none"> a. Iterative b. Sequential c. Conditional d. Consistent
Which of the following is a VALID variable name:	<ul style="list-style-type: none"> a. first name b. 1st_name c. first&last d. first_name
What line of code correctly initializes a count variable?	<ul style="list-style-type: none"> a. def count b. var count c. count is 0 d. count = 0
Given the code, what is the final value of n ? <code>n = 10</code> <code>n = n + 2</code>	<ul style="list-style-type: none"> a. 10 b. 12 c. 2 d. 10 and 2
What line of code updates the count by incrementing?	<ul style="list-style-type: none"> a. count = 1 b. count = num1 + num2 c. count = count + 1 d. count - 1
Which of the following is NOT a tool for debugging?	<ul style="list-style-type: none"> a. Using loops and variables b. Using print() statements in code c. Using the debugger d. Using a code tracing chart
How many times will the loop iterate?	<ul style="list-style-type: none"> a. 3 b. 4 c. 5 d. Infinite loop

<pre>count = 0 while count < 4: count = count + 1 print("count:", count)</pre>	
<p>What is printed by the following code?</p> <pre>count = 0 while count < 5: print(count, end=" ") count = count + 1 print("and ", count)</pre>	<ul style="list-style-type: none"> a. 1 2 3 4 and 5 b. 0 1 2 3 and 4 c. 1 2 3 4 5 and 6 d. 0 1 2 3 4 and 5
<p>What is printed by the following code?</p> <pre>num = 0 for i in range(3): num = num + i print(num)</pre>	<ul style="list-style-type: none"> a. 3 b. 6 c. 0 d. num
<p>What is printed by the following code?</p> <pre>for i in range(5, 0, -1): print(i, end=', ')</pre>	<ul style="list-style-type: none"> a. 5, 4, 3, 2, 1, 0, b. 5, 4, 3, 2, 1, c. 4, 3, 2, 1, 0, d. 4, 3, 2, 1,
<p>What is printed by the following code?</p> <pre>for i in range(1, 6, 2): print(i, end=', ')</pre>	<ul style="list-style-type: none"> a. 1, 2, 3, 4, 5, 6, b. 1, 3, 5, 7, c. 1, 3, 5, d. 0, 2, 4, 6,
<p>What line of code correctly defines a function?</p>	<ul style="list-style-type: none"> a. define sweep_left() b. def sweep_left: c. sweep_left() d. def sweep_left():
<p>What line of code correctly calls a function?</p>	<ul style="list-style-type: none"> a. call sweep_left() b. def sweep_left: c. sweep_left() d. def sweep_left():
<p>What does this code do?</p> <pre>from botcore import * from time import sleep def sweep(num): for i in range(num): sweep_left() sweep_right()</pre>	<ul style="list-style-type: none"> a. Sweeps left and then right 3 times b. Sweeps left 3 times and then sweeps right 3 times c. Sweeps left and right 1 time d. Nothing - function wasn't called

What does this code do?

```
from botcore import *
from time import sleep
def sweep(num):
    for i in range(num):
        sweep_left()
        sweep_right()
sweep(3)
```

- a. Sweeps left and then right 3 times
- b. Sweeps left 3 times and then sweeps right 3 times
- c. Sweeps left and right 1 time
- d. Nothing - function wasn't called

What code will wait for a button press before calling functions in a loop?

- a. if buttons.was_pressed():
- b. while buttons.was_pressed():
- c. while not buttons.was_pressed():
- d. for not buttons.was_pressed():