

Mission 8 - Boundary Patrol Review Questions

<p>Select the computer science definition of: PARAMETER</p>	<ul style="list-style-type: none"> a. A named variable that is listed in a function definition b. An Operator used to compare multiple conditions c. Variables defined outside a function d. A value passed when a function is called
<p>Select the computer science definition of: ARGUMENT</p>	<ul style="list-style-type: none"> a. A named variable that is listed in a function definition b. An Operator used to compare multiple conditions c. Variables defined outside a function d. A value passed when a function is called
<p>When a line sensor's reading returns a higher value, it is on a _____ surface</p>	<ul style="list-style-type: none"> a. Light or reflective b. Dark or non-reflective c. Variable d. Uneven
<p>Given the code, what will be printed?</p> <pre> threshold = 2 for i in range(4): if i > threshold: break print(i, end=' ') </pre>	<ul style="list-style-type: none"> a. 0 b. 0, 1, 2, c. 0, 1, 2, 3, 4 d. Infinite loop, won't stop
<p>Given the code, how many times will the loop print a value?</p> <pre> num = 0 while num < 5: val = ls.read(2) print(val) sleep(1) </pre>	<ul style="list-style-type: none"> a. 5 b. 2 c. 1 d. Infinite loop, won't stop
<p>Identify the default parameter:</p> <pre> def go(left, right, delay=0.5): motors.run(LEFT, left) motors.run(RIGHT, right) sleep(delay) go(50, 50) </pre>	<ul style="list-style-type: none"> a. left b. delay=0.5 c. LEFT d. 50
<p>What is the result of the function call?</p> <pre> def go(left, right, delay=0.5): motors.run(LEFT, left) motors.run(RIGHT, right) sleep(delay) go(50, 50) </pre>	<ul style="list-style-type: none"> a. Nothing happens; missing argument b. CodeBot moves backward for 0.5 seconds c. CodeBot moves forward for 0.5 seconds d. CodeBot turns for 0.5 seconds

Identify the positional argument: <pre>def fun(num1, num2=4): print(num1, num2, sep=',') fun(3, num2=6)</pre>	<ul style="list-style-type: none">a. 4b. 3c. num2=6d. num1
Identify the keyword argument: <pre>def fun(num1, num2=4): print(num1, num2, sep=',') fun(3, num2=6)</pre>	<ul style="list-style-type: none">a. 4b. 3c. num2=6d. num1
What is the result of the function call: <pre>def fun(num1, num2=4): print(num1, num2, sep=',') fun(3, num2=6)</pre>	<ul style="list-style-type: none">a. 3,4b. 3,6c. 3, num2=6d. Error, function call not correct
What is the result of the function call: <pre>def fun(num1, num2=4): print(num1, num2, sep=',') fun(1)</pre>	<ul style="list-style-type: none">a. 1,b. 1,4c. 1,1d. Error, function call not correct
What code defines an empty list?	<ul style="list-style-type: none">a. my_list = []b. my_list = ()c. my_list.new()d. new_list(my_list)
What code will add an item to a list?	<ul style="list-style-type: none">a. my_list.add(val)b. my_list(val)c. my_list[val]d. my_list.append(val)
What is returned by this function: <pre>def scan_lines(): sensors = [] for i in range(5): val = ls.read(i) is_line = val < threshold sensors.append(is_line) return sensors</pre>	<ul style="list-style-type: none">a. A Boolean value: True or Falseb. An integer: the line sensor readingc. A list of 5 Boolean valuesd. A list of 5 integer readings

What is the result of the code:

```
vals=[True, True, False, False, False]
if any(vals):
    brake()
    if vals[0] and not vals[4]:
        back_turn(30)
    elif vals[4] and not vals[0]:
        back_turn(-30)
    else:
        back_turn()
```

- a. The 'bot will brake and then back_turn(30)
- b. The 'bot will brake and then back_turn(-30)
- c. The 'bot will brake and then back_turn()
- d. Nothing will happen