## Mission 11 - Airfield Ops Review Questions

Select the computer science definition of: INCREMENT  Select the computer science definition of:	<ul> <li>a. A short way of writing a common expression</li> <li>b. Subtracting one from a variable</li> <li>c. Adding one to a variable</li> <li>d. Getting the integer remainder of a division problem</li> <li>a. A short way of writing a common expression</li> </ul>
DECREMENT	<ul> <li>b. Subtracting one from a variable</li> <li>c. Adding one to a variable</li> <li>d. Getting the integer remainder of a division problem</li> </ul>
What does this expression evaluate to?  3 // 2	a. 1 b. 2 c. 1.5 d. 2/3
What does this expression evaluate to?  8 % 5	a. 1.6 b6 <mark>c. 3</mark> d. 1
What does this expression evaluate to?  2**3	a. 6 b. 8 c. 9 d66667
What is the correct code for detecting a white line?	<ul> <li>a. vals = Is.check(2000, True)</li> <li>b. vals = Is.check(2000, False)</li> <li>c. vals = Is.check(2000)</li> <li>d. vals = Is.read(2000, True)</li> </ul>
What variable is used to track the state of the line sensor detection?	a. was_line = False b. was_line = 0 c. count = True d. count = 0
What variable is used to keep track of the number of lines crossed?	<ul><li>a. was_line = False</li><li>b. was_line = 0</li><li>c. count = True</li><li>d. count = 0</li></ul>
Which is an example of an augmented assignment?	a. count += 1 b. lites = [True] * number c. [ls.read(i)>2000 for i in range(5)] d. count = count + 1
<pre>Given this code, what is printed? is_line = True was_line = False if is_line and not was_line:     print('Detected') else:     print('Not detected') was_line = is_line</pre>	a. Nothing is printed b. Detected c. Not detected d. An error occurs

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Given this code, what is the final value of
                                          a.
                                             True
was_line?
                                          b. False
                                          c. None
is line = True
was line = False
if is line and not was line:
     print('Detected')
else:
     print('Not detected')
was line = is line
Given this code, what will be the result of the if
                                          a. Speaker turns on
statement?
                                          b. Speaker turns off
                                          c. Speaker turns on and then off
count = 16
                                          d. Nothing; neither condition is True
remainder = count % 8
if remainder == 0:
      spkr.pitch(440)
elif remainder == 3:
      spkr.off()
Given this code, what will be the result of the if
                                          a. Speaker turns on
statement?
                                          b. Speaker turns off
                                          c. Speaker turns on and then off
 count = 18
                                          d. Nothing; neither condition is True
 remainder = count % 8
 if remainder == 0:
       spkr.pitch(440)
 elif remainder == 3:
       spkr.off()
Given this code, what is the result of the if
                                          a. Nothing happens, no condition is true
statement?
                                          b. Proximity sensors turn on
                                          c. Proximity sensors turn off and next_marker is incremented
count = 8
                                          d. Proximity sensors turn on and next_marker is decremented
next marker = 3
marker dash = 2**next marker
if count == marker dash:
     leds.prox(3)
elif count == marker dash + 3:
     leds.prox(0)
     next marker += 1
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a. Nothing happens, no condition is true
Given this code, what is the result of the if
statement?
                                               b. Proximity sensors turn on
                                               c. Proximity sensors turn off and next_marker is incremented
 count = 11
                                               d. Proximity sensors turn on and next_marker is decremented
 next marker = 3
 marker dash = 2**next marker
 if count == marker dash:
      leds.prox(3)
 elif count == marker_dash + 3:
      leds.prox(0)
      next marker += 1
Given this code, what will be printed?
                                               a. [True] * 4
                                               b. [True] [True] [True]
new list = [True] * 4
                                               c. [True, True, True, True]
print(new list)
                                               d. An error occurs
Given this code, which leds are turned on?
                                               a. Line sensor LEDs 0, 1
                                               b. Line sensor LEDs 4, 5
 new list = [True] * 2
                                               c. Line sensor LED 2
 leds.ls(new list)
                                               d. An error occurs
What code turns on LEDs using a Boolean list
                                               a. leds.prox(0b11)
as the argument?
                                               b. leds.user(0)
                                                  leds.ls(vals)
                                               d. leds.prox(8)
What code turns on LEDs using a binary string
                                                   leds.prox(0b11)
as the argument?
                                               b. leds.user(0)
                                               c. leds.ls(vals)
                                               d. leds.prox(8)
What code turns on LEDs using an integer as
                                               a. leds.prox(0b11)
the argument?
                                               b. leds.user(0)
                                               c. leds.ls(vals)
                                               d. leds.prox(8)
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