

My grades for **Midterm**

2025PSM-3779-4664-BDCC-9321C0609CD

m-diers-ha39

#31 2 of 10

Do not write above the line

MULTIPLE CHOICE QUESTIONS

A. [12] CIRCLE your answer here AND complete in the last page (1 point each)

		QN
<p>What does this code output?</p> <pre>words = ["tickles", "pop", "roll", "dance"] output = "" for i in range(len(words)): output = output + words[i][2] print(output)</pre>	<p>(A) ird (B) ird (C) looa (D) <u>oia</u> (E) The code does not run, it produces an error.</p>	1
<p>What does this code output?</p> <pre>num_coins = 10 if num_coins > 5: num_coins += 2 print("You have " + num_coins + " coins.")</pre>	<p>(A) You have 10 coins. (B) <u>You have 12 coins.</u> (C) You have coins. (D) It doesn't run, it produces an error. (E) None of the above</p>	2
<p>What does this code output?</p> <pre>A = "Coding is fun!" C = Coding.isfun() print(w.strip("i_").split("_")[-1][-1])</pre>	<p>(A) <u>!</u> (B) <u>!</u> (C) Fun (D) s (E) None of the above</p>	3
<p>Given the following code snippet isRed = "False" what is the value of the variable isRed?</p>	<p>(A) <u>Boolean</u> (B) integer (C) String (D) float (E) None of the above</p>	4
<p>What is the type of my_value in the code, if the user types the value 10?</p> <pre>msg = "Enter value: " my_value = int(input(msg.strip(", ")))//5</pre>	<p>(A) <u>Integer</u> (B) String (C) float (D) Boolean (E) None of the above</p>	5
<p>If $n = \frac{1+3+5+\dots+2019}{6}$, what is the sum of the numbers in lst[2:4]?</p>	<p>(A) <u>1</u> (B) 9 (C) 5 (D) 10 (E) 7</p>	6

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ES3E2A99-0F6C-4935-A0B8-506A9F33F9F

id:0a9e-78a1:9

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<p>What is printed in the third iteration in the loop below when the code is executed, given that "myfile.csv" is a file in the same folder where the Python file with this code is. (the file is included here as opened in a text editor):</p> <div><div>a,b,c,d</div><div>1,2,3,4</div><div>10,20,30,40</div><div>e,f,g,h,i</div></div> <pre>file = open("myfile.csv") for line in file: print(line)</pre>	<p>(A) ["a", "1", "10"] (B) o p g (C) [c, 3, 30] (D) 10, 20, 30, 40 (E) 10, 20, 30, 40</p>	7
<p>Suppose the variable x is initialized to 5, and y is initialized to 4. What is the output of the following code segment?</p> <pre>if x > y: if x == 2: x += 2 print(x+3) else: print(y+4)</pre>	<p>(A) 3 (B) 8 (C) 5 (D) Nothing is printed (E) It does not run, it produces an error</p>	8
<p>Which of the following best describes the Python programming language?</p> <p>Python is...</p>	<p>(A) an algorithm (B) compiled (C) low-level (D) machine code (E) interpreted</p>	9
<p>What does this code output?</p> <pre>n = 10 if n <= 10: print("up") elif n == 10: print("down") if n > 4: print("left") else: print("none")</pre>	<p>(A) up down left (B) up left (C) up down left none (D) up down (E) none</p>	10

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#314 of 10

<p>What does the statement identified as #3 do when the code below is executed, given that "myfile.csv" is a file in the same folder where the Python file with this code is.</p> <pre>file = open("myfile.csv") #1 line = 5 #2 line = file.readline() #3</pre>	<p>(A) read the fifth (5th) line from the file and assign it to the variable line (B) read the fifth (5th) line from the file; assign it to the variable line; and move the internal point to the next line (C) read the first (1st) line from the file and assign it to the variable line (D) read the first (1st) line from the file, assign it to the variable line, and move a file internal point to the next line (E) The code does not run, it produces an error</p>	11
<p>What does the following code print as output?</p> <pre>import random numbers="0,1,2,3,4,5,6,7,8,9".lower().split(",") idea = random.choice(numbers) if idea == 1: print("You have only 1 ideal") else: print("You are full of ideas!")</pre>	<p>(A) It always prints "You are full of ideas!" (B) It always prints "You only have 1 ideal!" (C) There is an error in the code (D) There are no errors in the code, but we cannot tell what the result will be (E) None of the above</p>	12

MAKE SURE THAT YOU HAVE CIRCLED YOUR ANSWERS HERE AND ALSO COMPLETED THE BUBBLES IN THE LAST PAGE, ALL WITH BLACK PENCIL

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vidKey=78419

#31 5 of 18

B0

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SHORT ANSWER QUESTIONS (3 points)

B. [1] What does this code output?

```
numRoses = 10
isBlue = True
isRed = True
if isBlue:
    numRoses += 5
    isRed = False
if isRed:
    numRoses += 10
else:
    numRoses -= 10
if numRoses <= 10:
    print(numRoses)
```

B. Write your answer here

10

in-0
cor-
rect

C. [2] Rewrite the following program by defining a list and using only one if/else.


```
user_color = input("Your preferred color: ").lower()
if user_color == 'red':
    print('I also like the color red!')
elif user_color == 'green':
    print('I also like the color green!')
elif user_color == 'blue':
    print('I also like the color blue!')
elif user_color == 'violet':
    print('I also like the color violet!')
else:
    print('I do not know this color')
```

C. Write your answer here

```
user_color = input("Your preferred color: ").lower()
color_list = ["red", "blue", "green", "violet"]
if user_color in color_list:
    print("I also like the color ", user_color)
else:
    print("I do not know this color.")
```

all ok 2

C 2



F2FHCF3-F08E-463C-A418-C4-4378B27293
ml0etern-7d619
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CODING QUESTIONS (23 points)

Do not write above the line

D. [5] Write a ParentBot that asks 4 questions. Every time you say **yes**, then your points increase.

Questions: Did you eat? Did you study? Did you do your laundry? Did you call grandma?

ParentBot should reply: 0 points: I'm coming over 1-2 points: Ok. 3-4 points: Good!

Your code **must** use a **list**, a **for** loop, and at least one comparison operator < > <= >=

Did you eat? yes
Did you study? no
Did you do your laundry? no
Did you call grandma? no
Ok
>>>

Did you eat? yes
Did you study? no
Did you do your laundry? no
Did you call grandma? no
I'm coming over
>>>

```

response = input("Did you eat? ")
for i in range(4):
    if response == "yes":
        points += 1
    if points == 0:
        print("I'm coming over")
    elif points == 1 or points == 2:
        print("Ok.")
    else:
        print("Good!")

```

No list -1

minor error -0.5

minor error -0.5

minor error -1

minor error -0.5

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E 2.5

17EE1082-230C-4AAA-B980-699C3A8D0447
#101cwm-76a19
#31 7 of 10

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E. [5] Write code that asks the user for a list of integer numbers, separated by commas. Calculate the sum of the numbers, each multiplied by their positional index in the list. Assume that the user types as asked. In the sample run below note that $0^2 + 1^2 + 2^2 + 3^2$ is 39.

Type various integer numbers separated by commas --> 2,4,10,5
The sum of each number multiplied by its (Python) index is 39

```
user_nums = []
user_nums = input("Type various integer number separated by commas --> ")
sum = 0
for i in range(len(user_nums)):
    mult_index = int(user_nums[i]) * i
    sum += mult_index
print("The sum of each number multiplied by its index is", sum)
```

no number list -1

incorrect for

range

inc

NOT -1

*


lst[i]

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F	0.5
---	-----

G 4

86080386-8AD9-4325-A742-8328F647283D
niditem-7da19
#31 9 of 10



number,word,value	A	B	C
32,wow,45.87	1 number	word	value
29,great,1.05	2	32 wow	45.87
12,fun,2.81	3	29 great	1.05
43,sweet,1.11	4	12 fun	2.81
27,cream,0.08	5	43 sweet	1.11
	6	27 cream	0.08
		0	1
			2

```


file = open("myfile.csv")
line = file.readline()

for i in line[5:]:
    difference = int(line[0]) - int(line[2])
    smallest = 0
    if difference > 0:
        smallest = line[1]
print(smallest)

```

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MC p1 3



9C565269-5305-488A-9987-81AA6C052F4
id:488e-76a39
#31 10 of 10

Name: Allison Hill

Student ID Number: 301554375

Instructions:

Please completely fill in the rectangle associated with your response. Example: ☐ C13 C13 C13 C13

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
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2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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