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100 points

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Q1 Question 2a

12 points

Q1.1 Part 1

4 points

 [Rubric](#)

 **+4.0**

Answer is .

 **+0.0**

Answer is not .

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Q1.2 Part 2

4 points

 [Rubric](#)

 **+4.0**

Answer is

|

|

Answer is `0x7fff8c1ff994`. 2 **+0.0**Answer is not `0x7fff8c1ff994`.[+ Add Rubric Item](#)[Create Group](#)

Q1.3 Part 3

4 points

[Rubric](#) 1 **+4.0**Answer is `0x7fff8c1ff988`. 2 **+0.0**Answer is not `0x7fff8c1ff988`.[+ Add Rubric Item](#)[Create Group](#)

Q2 Question 2b

4 points

[Rubric](#)

1 +4.0

Answer is *exactly* `integer1= 11` (with varying white space).

2 +2.0

Answer includes `11`, but is not *exactly* `integer1=` (with varying white space).

3 +0.0

Answer does not include `11`.

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Q3 Question 2c

4 points

Rubric

1 +4.0

Answer is `yes` (or something that otherwise confirms that the output will remain the same), and may include printed output `integer1= 11` (with varying white space) or the answer `11`.

2 +2.0

Answer is not `yes` (or something that otherwise c
that the output will remain the same), but does in
printed output `integer1= 11` (with varying white :
or the answer `11`.

3 +0.0

Answer is not `yes` (or something that otherwise c
that the output will remain the same), and does n
include the printed output `integer1= 11` (with vai
white space) or the answer `11`.

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Q4 Question 2d

4 points

Rubric

1 +4.0

Answer is `no` (or something that otherwise states
the output will change), and may include printed
program output.

2 +2.0

Answer is not `no` (or something that otherwise st:

that the output will change), but does include prior program output.

3 +0.0

Answer is not (or something that otherwise states that the output will change), and does not include program output.

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Q5 Question 2e

6 points

[Rubric](#)

1 +6.0

Answer is similar to the following:

"part (d) is different because it increments the address what is pointing to, and then de-references the memory location"

2 +0.0

Answer is not similar to the following:

"part (d) is different because it increments the address what is pointing to, and then de-references the

memory location"

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Q6 Question 3

12 points

Rubric

1 +12.0

Answer includes (and/or is similar to) all of the fol

- `p2` represents a pointer to a character
- program will compile with warnings
- incompatible pointer types

2 +8.0

Answer includes (and/or is similar to) *only* two of t
the following:

- `p2` represents a pointer to a character
- program will compile with warnings
- incompatible pointer types

3 +4.0

Answer includes (and/or is similar to) *only* one of t

the following:

- `p2` represents a pointer to a character
- program will compile with warnings
- incompatible pointer types

4 +0.0

Answer does not include or is not at all similar to the following:

- `p2` represents a pointer to a character
- program will compile with warnings
- incompatible pointer types

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Q7 Question 4a

4 points

Rubric

OUTPUT:

1 +4.0

Answer is:

- 0
- 1
- 2
- 3

4
5
6
7
8
9

2 +2.0

Answer is: 0-9 with varying white space.

3 +0.0

Answer is not:

0
1
2
3
4
5
6
7
8
9

or any collection of 0-9 with varying white space.

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Q8 Question 4b

6 points

 Rubric

 1 **+6.0**

Answer includes (and/or is similar to) both of the following:

- `array_of_integers` evaluates to the location in memory of the beginning of the array, i.e. the first element of the array
- if you de-reference it, you get the first value in the array, which is `0`

 2 **+3.0**

Answer includes (and/or is similar to) *only* one of the following:

- `array_of_integers` evaluates to the location in memory of the beginning of the array, i.e. the first element of the array
- if you de-reference it, you get the first value in the array, which is `0`

 3 **+0.0**

Answer does not include or is not similar to the following:

- `array_of_integers` evaluates to the location in memory of the beginning of the array, i.e. the first element of the array
- if you de-reference it, you get the first value in the array, which is `0`

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Q9 Question 4c

6 points

[Rubric](#)

1 +6.0

Answer includes (and/or is similar to) both of the following:

- no
- initializing same array elements via pointer

2 +3.0

Answer includes (and/or is similar to) *only* one of the following:

- no
- initializing same array elements via pointer

3 +0.0

Answer does not include or is not similar to the fo

- no
- initializing same array elements via pointer

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Q10 Question 4d

6 points

Rubric

1 +6.0

Answer includes (and/or is similar to) both of the following:

- no
- printing same array elements via pointer

2 +3.0

Answer includes (and/or is similar to) *only* one of the following:

- no
- printing same array elements via pointer

3 +0.0

Answer does not include or is not similar to the fo

- no
- printing same array elements via pointer

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Q11 Question 4e

12 points

Q11.1 Part 1

6 points

Rubric

1 +6.0

Answer includes (and/or is similar to) all of the fol

- no, output does not change
- de-references the pointer, assigns a value, then increments the pointer
- fills up the array with the correct values in the c locations

2 +4.0

Answer includes (and/or is similar to) *only* two of the following:

- no, output does not change
- de-references the pointer, assigns a value, then increments the pointer
- fills up the array with the correct values in the c locations

3 +2.0

Answer includes (and/or is similar to) *only* one of the following:

- no, output does not change
- de-references the pointer, assigns a value, then increments the pointer
- fills up the array with the correct values in the c locations

4 +0.0

Answer does not include or is not at all similar to the following:

- no, output does not change
- de-references the pointer, assigns a value, then increments the pointer
- fills up the array with the correct values in the c locations

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Q11.2 Part 2

6 points

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1 +6.0

Answer includes (and/or is similar to) both of the following:

- no
- the address of where `ptr_of_array` is pointing the initialization is now one past the end of the

2 +3.0

Answer includes (and/or is similar to) *only* one of the following:

- no
- the address of where `ptr_of_array` is pointing the initialization is now one past the end of the

3 +0.0

Answer does not include or is not similar to the fo

Answer does not include or is not similar to the following:

- no
- the address of where `ptr_of_array` is pointing the initialization is now one past the end of the

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Q12 Question 5a

12 points

[Rubric](#)

OUTPUT:

1 **+12.0**

Answer is:

```
a is 1, b is 2
i is 2, *pi is 3
a is 1, b is 3
```

2 **+6.0**

Answer is:

```
a is 1, b is 2
i is 2, *pi is 3
a is 1, b is 3
```

with non-exact but similar white space or capitalization/punctuation.

3 +0.0

Answer is not:

a is 1, b is 2

i is 2, *pi is 3

a is 1, b is 3

or any similar output with varying white space or capitalization/punction.

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Q13 Question 5b

12 points

Rubric

1 +12.0

Answer explains or depicts that `i` is incremented within the function `increment`, then the pointer `p` incremented locally within the function `increment` affects the actual value of `b` since it was passed a argument for `pi`.

Note: Answers for this question may be highly var similar answer is acceptable as long as it explains each value is incremented at the right time.

2 +0.0

Answer does not explain or depict that `i` is incremented locally within the function `increment`, then the pointer `pi` is incremented locally within the function `increment` which affects the actual value of `b` since it was passed as the argument for `pi`.

Note: Answers for this question may be highly varied. A similar answer is acceptable as long as it explains how each value is incremented at the right time.

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Q14 Absence Penalty

0 points

Rubric

1 -0.0

Student was present in lab when required.

2 -0.0

Student was not present in lab, but provided a reasonable excuse. Responsible TA(s) will provide information in comments.

⋮ 3 -50.0

Student was not present in lab, and did not provide reasonable excuse ahead of time. Responsible TA provide more information in comments.

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