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/ [Quiz #4 \(up to Lecture 11/Chap 9\)](#).

Started on	Thursday, 8 October 2020, 7:07 PM
State	Finished
Completed on	Thursday, 8 October 2020, 7:26 PM
Time taken	19 mins 31 secs
Marks	10.08/15.00
Grade	67.22 out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

In the array `int a[5][10]`, which element will `a[3, 4]` access?

Select one:

☐ `a[3][4]`

☐ `a[3]`

☐ `a[4]`

☐ `a[7]`

☒ This is a syntax error. ❌

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: `a[4]`

Question 2

Correct

Mark 1.00 out of 1.00

For C programs, what is the typical (conventional) `exit` value indicating no errors?

Select one:

☒ 0 ✓

☐ 1

☐ Any positive value generally indicates no errors, whereas negative values are used for errors.

☐ Usually, any positive value indicates an error, whereas anything less than or equal to 0 indicates no errors.

[cross out](#)

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Your answer is correct.

Click "Next page" to continue

The correct answer is: 0

Question 3

Correct
Mark 1.00 out of 1.00

Is the following function definition correct?

```
void returnsInteger(int a) {  
    int b = a + 10;  
    if (b > 20) {  
        return b;  
    }  
    else {  
        return a;  
    }  
}
```

Select one:

- ☐ True
- ☒ False ✓

[cross out](#)
[cross out](#)

Your answer is correct.
Click "Next page" to continue
The correct answer is: False

Question 4

Correct
Mark 1.00 out of 1.00

What is the return type of the following function?

```
int average(double a, double b) {  
    double result = (a + b) / 2;  
    return result;  
}
```

Select one:

- ☐ double
- ☒ int ✓
- ☐ void
- ☐ There is a syntax or runtime error in the function.

[cross out](#)
[cross out](#)
[cross out](#)
[cross out](#)

Your answer is correct.
Click "Next page" to continue
The correct answer is: int

Question 5

Correct
Mark 1.00 out of 1.00

Function arguments in C are pass-by-reference. That is, changes made to the function parameters during its execution also affect the arguments.

Select one:

- ☐ True
- ☒ False ✓

[cross out](#)
[cross out](#)

Your answer is correct.
Click "Next page" to continue
The correct answer is: False

Question 6

Incorrect

Mark 0.00 out of 1.00

Consider the following two function declarations:

```
int function_a(int n, int arr[n]);
int function_b(int n, int arr[]);
```

How will these two functions behave differently?

Select one:

- ☐ There is no difference in functionality. cross out
- ☒ function_a will make sure that arr has exactly n elements, or throw an error. function_b will perform no such checks. ✖ cross out
- ☐ function_b has a syntax error. cross out
- ☐ function_a has a syntax error. cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: There is no difference in functionality.

Question 7

Partially correct

Mark 0.67 out of 1.00

Which of the following can be stored in a char variable?

Select all that apply:

- ☒ 'a' ✔ cross out
- ☒ '1' ✔ cross out
- ☐ "11" cross out
- ☐ 11 cross out
- ☐ 10000 cross out

Your answer is partially correct.

Click "Next page" to continue

The correct answers are: 'a', '1', 11

Question 8

Partially correct

Mark 0.42 out of 1.00

Which of the following floating point representations are equivalent to 10.0?

Select all that apply:

- ☒ 10. ✔ cross out
- ☒ 10e-0 ✔ cross out
- ☐ 1E1 cross out
- ☒ 9.99999 ✖ cross out
- ☐ 10.E-2 cross out
- ☒ 100.E-1 ✔ cross out
- ☐ 1000.E-1 cross out

Your answer is partially correct.

Click "Next page" to continue

The correct answers are: 10., 10e-0, 1E1, 100.E-1

Question 9

Correct
Mark 1.00 out of 1.00

Suppose we have the following variables:

```
int x = 104;
unsigned int y = 105;
```

What will the expression `x - y > 0` evaluate to?

Select one:

- ☒ True ✓
- ☐ False

[cross out](#)
[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: True

Question 10

Correct
Mark 1.00 out of 1.00

What is the conversion specifier for a long, signed integer?

Select one:

- ☐ %lu
- ☒ %ld ✓
- ☐ %d
- ☐ %lu

[cross out](#)
[cross out](#)
[cross out](#)
[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: %ld

Question 11

Incorrect
Mark 0.00 out of 1.00

Suppose we initialize a 2D array as follows:

```
int a[3][3] = {1, 2, 3, 4, 5};
```

What is the value of `a[1][0]`?

Select one:

- ☒ 0 ✗
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ Unknown as the element has not been initialized.
- ☐ The code will cause a syntax error.

[cross out](#)
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[cross out](#)
[cross out](#)

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: 4

Question 12

Incorrect

Mark 0.00 out of 1.00

Suppose we initialize a 2D array as follows:

```
int a[3][3] = {1, 2, 3, 4, 5};
```

What is the value of `a[3][0]`?

Select one:

- ☒ 0 ❌
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ Garbage value because out of bounds access.
- ☐ The code will cause a syntax error.

[cross out](#)

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Your answer is incorrect.

Click "Next page" to continue

The correct answer is: Garbage value because out of bounds access.

Question 13

Correct

Mark 1.00 out of 1.00

You have the following code snippet:

```
int a[5];
```

```
a[0] = 0;  
a[1] = 1;  
a[2] = 2;  
a[3] = 3;  
a[4] = 4;  
a[5] = 5;
```

```
// Using a further in the program ...
```

How can you improve (or shorten) it?

Select one:

- ☐ Nothing to improve. It already looks good.
- ☒ Use a loop. ✔️
- ☐ Use one or more if-conditions.
- ☐ Declare another array and assign values there.

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answers are: Use a loop., Declare another array and assign values there.

Question 14

Correct

Mark 1.00 out of 1.00

Considering that the 2D array `a[5][10]` has 5 rows and 10 columns, how are 2D arrays represented in memory?

Select one:

- ☐ The whole array is arranged as-is in 2D memory space. [cross out](#)
- ☒ Each row is arranged consecutively in memory. That is, row 1 comes right after row 0 in memory. ✓ [cross out](#)
- ☐ Each column is arranged consecutively in memory. That is, column 8 comes right after column 7 in memory. [cross out](#)
- ☐ A row is placed as a singular unit in memory, but each row is not necessarily right after the previous row in memory. [cross out](#)
- ☐ A column is placed as a singular unit in memory, but each column is not necessarily right after the previous column in memory. [cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: Each row is arranged consecutively in memory. That is, row 1 comes right after row 0 in memory.

Question 15

Correct

Mark 1.00 out of 1.00

Support we have an array `bool a[5][10]`. What will `sizeof(a)` return?

Select one:

- ☐ 0 [cross out](#)
- ☐ 15 [cross out](#)
- ☒ 50 ✓ [cross out](#)
- ☐ 100 [cross out](#)
- ☐ 200 [cross out](#)
- ☐ 500 [cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: 50

◀ Practice Quiz #4 (up to Lecture 11/Chap 9)

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