Started on	Thursday, 8 October 2020, 8:20 AM
State	Finished
Completed on	Thursday, 8 October 2020, 8:34 AM
Time taken	13 mins 57 secs
Marks	10.00/15.00
Grade	**66.67** 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]` cross out
- `a[3]` cross out
- `a[4]` cross out
- `a[7]` cross out
- This is a syntax error. ✖ 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 ✔ cross out
- 1 cross out
- Any positive value generally indicates no errors, whereas negative values are used for errors. cross out
- Usually, any positive value indicates an error, whereas anything less than or equal to 0 indicates no errors. cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: 0

Question 3

Incorrect

Mark 0.00 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 ✖ cross out
- False cross out

Your answer is incorrect.

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 cross out
- int ✔ cross out
- void cross out
- There is a syntax or runtime error in the function. cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: int

Question 5

Incorrect

Mark 0.00 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 ✖ cross out
- False cross out

Your answer is incorrect.

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 0.33 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 0.67 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 ✔ cross out
- False 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` cross out
- `%ld` ✔ cross out
- `%d` cross out
- `%lu` cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: `%ld`

Question 11

Correct

Mark 1.00 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 cross out
- 2 cross out
- 3 cross out
- 4 ✔ cross out
- 5 cross out
- Unknown as the element has not been initialized. cross out
- The code will cause a syntax error. cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: 4

Question 12

Correct

Mark 1.00 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 cross out
- 2 cross out
- 3 cross out
- 4 cross out
- 5 cross out
- Garbage value because out of bounds access. ✔ cross out
- The code will cause a syntax error. cross out

Your answer is correct.

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. cross out
- Use a loop. ✔ cross out
- Use one or more if-conditions. cross out
- Declare another array and assign values there. 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)

Jump to...

Lab #5 D03 submission page ►