## Dashboard / My courses / CMPUT 201 (LEC A1 A2 A3 Fall 2020) / Week 9: October 26,28,30

/ Quiz #7 (up to Lecture 18/Chap 12)

Started on	Thursday, 29 October 2020, 8:36 AM
State	Finished
Completed on	Thursday, 29 October 2020, 8:50 AM
Time taken	13 mins 23 secs
Marks	15.00/15.00

#### **Grade 100.00** out of 100.00

#### Question 1

Correct

Mark 1.00 out of 1.00

What is \* (a + 8) equivalent to?

#### Select one:

- a[8] 🗸
- cross out cross out
- a[0] + 8

&a[8]

cross out

It depends on how many bytes an int occupies on the machine.

cross out

None of the above.

cross out

#### Your answer is correct.

Click "Next page" to continue

The correct answer is: a [8]

### Question 2

Correct

Mark 1.00 out of 1.00

# What is the output of the following program?

```
int f(int n) {
 static int i;
 i += n;
 return i;
int main() {
 int i = 3;
 i += f(i);
 i += f(i);
 printf("%d\n", i);
 return 0;
```

## Select one:

3

cross out

cross out

12

cross out cross out

15 🗸

9

cross out

18

cross out

### Your answer is correct.

Click "Next page" to continue

The correct answer is: 15

## ${\tt Question}~3$

Correct

Mark 1.00 out of 1.00

```
How many times will the for-loop body in function "g()" execute?
int i;
void f() {
  for (i = 1; i <= 10; ++i) {
  printf("*");
  }
void g() {
  // How many times will this for-loop body execute?
  for (i = 1; i <= 5; ++i) {
    f();
    printf("\n");
  }
int main() {
  g();
  return 0;
Select one:
1 
                                                                                                cross out
                                                                                                cross out
     5
                                                                                                cross out
     15
                                                                                                cross out
     10
                                                                                                cross out
     0
```

Your answer is correct.

Click "Next page" to continue

The correct answer is: 1

### Question 4

Correct

Mark 1.00 out of 1.00

Assuming it compiles successfully, what is the output of the following program?

```
int x = 9999;
int main() {
  printf("%d", ++x);
  return 0;
}
```

### Select one:

9999

cross out

● 10000 ✔

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: 10000

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
 cross out
 cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: False

#### Question 6

Correct

Mark 1.00 out of 1.00

Why functions in C are useful? Select the most appropriate.

Select all that apply:

I don't know.

They are not useful at all.

They help developers avoid duplicating code and increase code reuse. ✓

They help developers divide a program into smaller, more manageable chunks. ✓

They always return something.

Your answer is correct.

Click "Next page" to continue

The correct answers are: They help developers avoid duplicating code and increase code reuse., They help developers divide a program into smaller, more manageable chunks.

## Question 7

Correct

Mark 1.00 out of 1.00

Suppose we have two int called p and q. How can we change the address of p to match the address of q?

Select one:

- Your answer is correct.

Click "Next page" to continue

The correct answer is: You cannot change the address of  $\ensuremath{\mathtt{p}}$ 

You cannot change the address of p

cross out

Correct

Mark 1.00 out of 1.00

```
Suppose we have the following declarations:
```

```
int a = 1, b = 2;
int *p = &a, *q = &b;
```

How can we use the pointers to copy the value of b into a?

#### Select one:

- $\bigcirc \qquad \&p = \&q;$ 
  - \*p = &q;
     cross out

     \*p = \*q; ✓
     cross out
    - &p = \*q; cross out

#### Your answer is correct.

Click "Next page" to continue

The correct answer is: \*p = \*q;

#### Question 9

Correct

Mark 1.00 out of 1.00

Which, if any, of the following function prototypes will prevent us from changing the integer pointed to by a?

## Select all that apply:

**/** 

- void f(int \*a);
- void f(const int \*a); ✓

  void f(int \* const a);

  cross out

  cross out
  - void f(const int \* const a); ✓

#### Your answer is correct.

Click "Next page" to continue

The correct answers are: void f(const int \*a);, void f(const int \* const a);

## Question 10

Correct

Mark 1.00 out of 1.00

## Consider the following function fragment:

```
void fun(int arg1) {
  int a = arg1 + 5;
  int *p = &a;
```

Which of the following return statements will provide the calling function with a usable pointer to a?

### Select one:

- cross out
  - return p; cross out
    return & arg1; cross out
  - None of the above return statements will provide us with a usable pointer.

cross out

cross out

### Your answer is correct.

Click "Next page" to continue

The correct answer is: None of the above return statements will provide us with a usable pointer.

Correct

Mark 1.00 out of 1.00

Which of the following function prototypes return a pointer to an int?

#### Select one:

- cross out int f(int \*a); cross out int &f(int a); cross out
  - int \*f(int \*a); ✓ cross out

Pointers are invalid return types for functions.

#### Your answer is correct.

Click "Next page" to continue

The correct answer is: int \*f(int \*a);

#### Question 12

Correct

Mark 1.00 out of 1.00

Suppose we have declared an array of int using int  $a[10] = \{0\}$ , and another array using int  $b[5] = \{0\}$ . What will the expression &a[3] - &b[1] return?

#### Select one:

- 2 \* sizeof(int) cross out
- cross out
- cross out
- cross out The expression will result in undefined behaviour. ✓ cross out
- The expression will cause an error.

#### Your answer is correct.

Click "Next page" to continue

The correct answer is: The expression will result in undefined behaviour.

## Question 13

Correct

Mark 1.00 out of 1.00

Suppose we create a 2D array of int using the following declaration:

int a[30][5];

What element does \* (a + 5) [3] point to?

### Select one:

- cross out a[5][3] cross out
- a[3][5] cross out It points to the entire row of a[8].
- cross out It doesn't point to any element in a 🗸

## Your answer is correct.

Click "Next page" to continue

The correct answer is: It doesn't point to any element in a

Correct

Mark 1.00 out of 1.00

Suppose we create a 2D array of int using the following declaration:

int a[30][5];

What element does (\* (a + 5)) [3] point to?

#### Select one:

a[5][3] X

cross out

a[3][5]

cross out

It points to the entire row of a[8].

cross out

It doesn't point to any element in a

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: It doesn't point to any element in a

#### Question 15

Correct

Mark 1.00 out of 1.00

Suppose we have the following declarations:

```
int a[10] = {0};
int *p = a;
```

What will the expression \*++p = 10; do?

### Select one:

It will set a [0] to 10, and move p to point to a [1]

cross out

■ It will set a[1] to 10 and move p to point to a[1]

cross out

It will increment the value at a [0] and then set it to 10.

cross out

The expression will result in an error.

cross out

Your answer is correct.

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The correct answer is: It will set a[1] to 10 and move p to point to a[1]

◆ Practice Quiz #7 (up to Lecture 18/Chap 12)

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