

[Dashboard](#) / [My courses](#) / [CMPUT 201 \(LEC A1 A2 A3 Fall 2020\)](#) / [Week 7: October 14,16](#)  
/ [Quiz #5 \(up to Lecture 13/Chap 10\)](#).

Started on	Thursday, 15 October 2020, 5:25 PM
State	Finished
Completed on	Thursday, 15 October 2020, 5:41 PM
Time taken	16 mins 18 secs
Marks	13.50/15.00
Grade	90.00 out of 100.00

Question 1

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.

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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 2

Correct  
Mark 1.00 out of 1.00

Will the following function definition compile successfully?

```
void foo(int a, int b) {  
    a + b;  
    return;  
}
```

Select one:

- ☒ True ✓
- ☐ False

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Your answer is correct.

Click "Next page" to continue

The correct answer is: True

Question 3

Correct  
Mark 1.00 out of 1.00

What is the problem with the following function definition?

```
def returnsInteger(int a) {  
    int b = a;  
    if (b >= a) {  
        return b;  
    }  
    else {  
        return a;  
    }  
}
```

Select one:

- ☐ It never returns b.
- ☐ It never returns a.
- ☒ It does not compile. ✓
- ☐ It works fine, there is no problem.

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Your answer is correct.  
Click "Next page" to continue  
The correct answer is: It does not compile.

Question 4

Correct  
Mark 1.00 out of 1.00

What is the return type of the following function?

```
int[2][2] fill_array(int a) {  
    int arr[2][2] = {a, a, a, a};  
    return arr;  
}
```

Select one:

- ☐ int
- ☐ int[2][2]
- ☐ void
- ☒ There is a syntax or runtime error in the function. ✓

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Your answer is correct.  
Click "Next page" to continue  
The correct answer is: There is a syntax or runtime error in the function.

Question 5

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 ✓

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

Question 6

Correct  
Mark 1.00 out of 1.00

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

Select one:

- ☐ %lu
- ☒ %ld ✓
- ☐ %d
- ☐ %lu

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

Question 7

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

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

Question 8

Correct  
Mark 1.00 out of 1.00

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

Select all that apply:

- ☒ `10.` ✓
- ☒ `10e-0` ✓
- ☒ `1E1` ✓
- ☐ `9.99999`
- ☐ `10.E-2`
- ☒ `100.E-1` ✓
- ☐ `1000.E-1`

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Your answer is 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

A `float` and `double` have the same maximum value. Only the precision is different between the two.

Select one:

- ☐ True
- ☒ False ✓

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

Question 10

Partially correct

Mark 0.50 out of 1.00

What are/is the disadvantages(s) of external (global) variables?

Select all that apply:

- ☐ These variables may change values of the local variables
- ☐ Function `main()` cannot always use global variables
- ☐ Hard to reuse functions in other programs because it depends on the external variables
- ☒ Might be difficult to debug the program and identify a function that causes a problem
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Your answer is partially correct.

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The correct answers are: Hard to reuse functions in other programs because it depends on the external variables, Might be difficult to debug the program and identify a function that causes a problem

Question 11

Correct

Mark 1.00 out of 1.00

What is the output of the following program?

```
#include <stdio.h>

int i = 3;

int f(int n) {
    return ++n;
}

int main() {
    f(i);
    printf("%d\n", i);
    return 0;
}
```

Select one:

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ This program will not compile
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Your answer is correct.

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The correct answer is: 3

Question 12

Correct

Mark 1.00 out of 1.00

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

```
int x = 9999;

void f(int x) {
    x = 1000;
}

void g() {
    x = 500;
}

void h(int z) {
    z = 1000;
}

int main() {
    f(x);
    x = 1;
    g();
    h(x);
    printf("%d", ++x);
    return 0;
}
```

Select one:

- ☐ 1001
- ☐ 2
- ☐ 10000
- ☒ 501 ✓
- ☐ 500
- ☐ 1000
- ☐ 9999

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Your answer is correct.

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The correct answer is: 501

Question 13

Incorrect

Mark 0.00 out of 1.00

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

```
int x = 5;

void change(int x) {
    x = 15;
}

int main() {
    int x = 10;
    printf("%d", x);
    return 0;
}
```

Select one:

- ☐ 15
- ☐ 10
- ☒ 5 ✗

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Your answer is incorrect.

Click "Next page" to continue

The correct answer is: 10

Question 14

Correct

Mark 1.00 out of 1.00

What is the output of the following program?

```
#include <stdio.h>

int x = 9999;
x += 1;

int main() {
    int x = 1000;
    printf("%d", x);
    return 0;
}
```

Select one:

- ☒ It will not compile ✓
- ☐ 1000
- ☐ 9999
- ☐ 10000

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Your answer is correct.

Click "Next page" to continue

The correct answer is: It will not compile

Question 15

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
- ☐ 6
- ☐ 9
- ☐ 12
- ☒ 15 ✓
- ☐ 18

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Your answer is correct.

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The correct answer is: 15