

[Dashboard](#) / [My courses](#) / [CMPUT 201 \(LEC A1 A2 A3 Fall 2020\)](#) / [Week 8: October 19,21,23](#)  
/ [Quiz #6 \(up to Lecture 16/Chap 12\)](#)

Started on	Thursday, 22 October 2020, 2:25 AM
State	Finished
Completed on	Thursday, 22 October 2020, 2:39 AM
Time taken	13 mins 44 secs
Marks	9.67/15.00
Grade	64.44 out of 100.00

Question 1

Partially correct  
Mark 0.17 out of 1.00

If `a` is an `int` and `p` points to `a`, then which of the follow expressions will give us `a`?

Select all that apply:

- ☒ \*p
- ☐ &p
- ☒ &\*a
- ☐ \*&a
- ☐ \*\*&p
- ☒ \*&\*p
- ☐ &\*&p

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Your answer is partially correct.

Click "Next page" to continue

The correct answers are: \*p, \*&a, \*\*&p, \*&\*p

Question 2

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 ✓
- ☐ 5
- ☐ 15
- ☐ 10
- ☐ 0

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Your answer is correct.

Click "Next page" to continue

The correct answer is: 1

Question 3

Incorrect

Mark 0.00 out of 1.00


What is the output of the following program?

```
#include <stdio.h>
int i = 0;

int f(int n) {
    i = 10 + i;
    int i = 20;
    return ++n;
}

int main() {
    f(i);
    printf("%d\n", i + 1);
    return 0;
}
```

Select one:

- ☐ 0
- ☐ 1
- ☒ 2 
- ☐ 10
- ☐ 11
- ☐ 20
- ☐ 21
- ☐ This program will not compile

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Your answer is incorrect.

Click "Next page" to continue

The correct answer is: 11

Question 4

Correct


Mark 1.00 out of 1.00

Consider the following function prototype.

```
int f(int n, int arr[]);
```

Inside the function, the length of `arr` can be determined by using `sizeof(arr) / sizeof(int)`.

Select one:

- ☐ True
- ☒ False 

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Your answer is correct.

Click "Next page" to continue

The correct answer is: False

Question 5

Correct  
Mark 1.00 out of 1.00

Consider the following function:

```
void magic(int x, int y) {  
    int temp = x;  
    x = y;  
    y = temp;  
}
```

And suppose that the function is called as follows:

```
int x = 50;  
int y = 75;  
magic(x, y);
```

What are the values of `x` and `y` afterwards, respectively?

Select one:

- ☐ 75 and 50
- ☐ 75 and 75
- ☒ 50 and 75 ✓
- ☐ 50 and 50

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Your answer is correct.

Click "Next page" to continue

The correct answer is: 50 and 75

Question 6

Correct  
Mark 1.00 out of 1.00

Consider the following function:

```
void copy_x(int x, int y)  
{  
    y = x;  
}
```

And suppose that the function is called as follows:

```
int x = 5;  
int y = 0;  
copy_x(x, y);
```

What are the values of `x` and `y` afterwards, respectively?

Select one:

- ☐ 0 and 0
- ☒ 5 and 0 ✓
- ☐ 0 and 5
- ☐ 5 and 5

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Your answer is correct.

Click "Next page" to continue

The correct answer is: 5 and 0

Question 7

Correct  
Mark 1.00 out of 1.00

Can a function take a variable-length array as a function argument as follows?

```
void f(int arr[n], int n);
```

Select one:

- ☐ Yes. C99 supports variable-length arrays as in the above function declaration.
- ☐ No. The length of the array must be known at compile time.
- ☐ No. Arrays are not acceptable as function arguments.
- ☒ No. The order of the arguments is incorrect. ✓

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Your answer is correct.  
Click "Next page" to continue  
The correct answer is: No. The order of the arguments is incorrect.

Question 8

Correct  
Mark 1.00 out of 1.00

What is the conversion specifier for a number in base 8?

Select one:

- ☐ %8
- ☒ %o ✓
- ☐ %d
- ☐ %x

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

Question 9

Correct  
Mark 1.00 out of 1.00

Considering the bit storage for floating point numbers, if the value 5.0 is stored in a float, what is the value of its exponent?

Select one:

- ☐ 0
- ☐ 128
- ☒ 129 ✓
- ☐ 254
- ☐ 255

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Your answer is correct.  
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The correct answer is: 129

Question 10

Incorrect  
Mark 0.00 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:

- ☐ &p = &q
- ☐ &p = \*q
- ☒ \*p = &q ✗
- ☐ \*p = \*q
- ☐ You cannot change the address of p

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Your answer is incorrect.  
Click "Next page" to continue  
The correct answer is: You cannot change the address of p

Question 11

Partially correct  
Mark 0.50 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);` ✗
- ☒ `void f(const int * const a);` ✓

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Your answer is partially correct.

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

Question 12

Incorrect  
Mark 0.00 out of 1.00

Suppose we have the following declarations:

```
int a, *p;
```

How can we make `p` point to `a`?

Select one:

- ☐ `p = &a;`
- ☒ `*p = &a;` ✗
- ☐ `&p = *a;`
- ☐ `p = *a;`

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Your answer is incorrect.

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The correct answer is: `p = &a;`

Question 13

Incorrect  
Mark 0.00 out of 1.00

Which of the following declarations could we consider a pointer to a pointer to an `int` variable?

Select one:

- ☒ `int *p` ✗
- ☐ `int *p &`
- ☐ `int &&p`
- ☐ `int* *p`
- ☐ None of the above are valid ways to create the desired pointer.
- ☐ You cannot create pointers to other pointers.

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Your answer is incorrect.

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The correct answer is: `int* *p`

Question 14

Correct  
Mark 1.00 out of 1.00

Suppose we have the following declarations:

```
int a;  
int *p = &a;
```

Which of the following are valid ways to read an `int` from `stdin` into `a`?

Select all that apply:

- ☒ `scanf("%d", &a);` ✓
- ☐ `scanf("%d", a);`
- ☐ `scanf("%d", *a);`
- ☐ `scanf("%d", &p);`
- ☒ `scanf("%d", p);` ✓
- ☐ `scanf("%d", *p);`

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Your answer is correct.

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The correct answers are: `scanf("%d", &a);`, `scanf("%d", p);`

Question 15

Correct  
Mark 1.00 out of 1.00

Suppose, given some variable `a`, we have the following pointer declaration:

```
int *p = &a;
```

Which of the following is the expression `&* &* &*p` equivalent to?

Select all that apply:

- ☒ `p` ✓
- ☐ `&&p`
- ☐ `&p`
- ☐ `*p`
- ☒ `& (*p)` ✓

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Your answer is correct.

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The correct answers are: `p`, `& (*p)`