

[Dashboard](#) / [My courses](#) / [CMPUT 201 \(LEC A1 A2 A3 Fall 2020\)](#) / [Week 14: November 30,2,4](#)
/ [Quiz #11 \(up to Lecture 30/Chap 22\)](#).

Started on	Friday, 4 December 2020, 12:56 PM
State	Finished
Completed on	Friday, 4 December 2020, 1:01 PM
Time taken	5 mins 15 secs
Marks	15.00/15.00
Grade	100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

Which of the following objects represents a file?

Select one:

- ☒ FILE* ✓
- ☐ fopen
- ☐ printf
- ☐ fprintf

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: FILE*

Question 2

Correct
Mark 1.00 out of 1.00

Suppose we have the following makefile:

```
main: main.o
    gcc -Wall -std=c99 main.o a.o b.o

a.o: a.c a.h
    gcc -Wall -std=c99 -c a.c

b.o: b.c b.h
    gcc -Wall -std=c99 -c b.c
```

Now, suppose we make, and then edit b.h, and then make again. Which of the rules in the makefile will be run?

Select one:

- ☐ main
- ☐ a.o
- ☐ b.o
- ☐ main and a.o
- ☐ main and b.o
- ☐ All three
- ☒ None ✓

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: None

Question 3

Correct
Mark 1.00 out of 1.00

What is the purpose of the header guard (#ifndef ... #endif) in header files?

Select one:

- ☐ The header guard is simply C convention and tells the reader which file they're looking at. cross out
- ☐ The header guard prevents function prototypes from being included multiple times, which would cause a compilation error. cross out
- ☐ The header guard prevents preprocessor macros (such as #include) from being repeated, which would cause a compilation error. cross out
- ☒ The header guard prevents type definitions from being repeated, which would cause a compilation error. cross out



Your answer is correct.

Click "Next page" to continue

The correct answer is: The header guard prevents type definitions from being repeated, which would cause a compilation error.

Question 4

Correct
Mark 1.00 out of 1.00

```
struct node
{
    int i;
    float j;
};
struct node *s[10];
```

The declaration above define `s` to be:

Select one:

- ☒ An array, each element of which is a pointer to a structure of type node cross out
- ☐ A structure of 2 fields, each field being a pointer to an array of 10 elements cross out
- ☐ A structure of 3 fields, an integer, a float, and an array of 10 elements cross out
- ☐ An array, each element of which is a structure of type node cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: An array, each element of which is a pointer to a structure of type node

Question 5

Correct
Mark 1.00 out of 1.00

Consider the following declaration:

```
struct {
    char str[5];
    union {
        int y;
        long z;
    } u;
} t;
```

Assume that objects of the type char, int and long occupy 1 bytes, 4 bytes and 8 bytes, respectively. What is the memory requirement for variable `t`?

Select all that apply:

- ☐ = 10 bytes cross out
- ☒ ≥ 13 bytes cross out
- ☐ = 17 bytes cross out
- ☒ = 16 bytes cross out

Your answer is correct.

Click "Next page" to continue

The correct answers are: ≥ 13 bytes, = 16 bytes

Question 6

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

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

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

Question 7

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 8

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 9

Correct
Mark 1.00 out of 1.00

What is wrong with the following macro definition?

```
#define IS_EVEN(int n) ((n%2)==0)
```

Select one:

- ☐ Cannot use operator '%' inside macro definition [cross out](#)
- ☒ Macro parameters must be comma-separated ✓ [cross out](#)
- ☐ Redundant parentheses around equality expression [cross out](#)
- ☐ Should include 'stdio.h' before the definition [cross out](#)

Your answer is correct.
Click "Next page" to continue
The correct answer is: Macro parameters must be comma-separated

Question 10

Correct
Mark 1.00 out of 1.00

What will a be at the end of this code snippet?

```
#define F(x, y) x + y
int a = 10 * F(2, 3);
```

Select one:

- ☐ 10
- ☒ 23 ✓
- ☐ 50
- ☐ The code will cause an error.

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

Your answer is correct.

Click "Next page" to continue

The correct answer is: 23

Question 11

Correct
Mark 1.00 out of 1.00

What will a be at the end of this code snippet?

```
#define F(x, y) (x + y)
int a = 10 * F(2, 3);
```

Select one:

- ☐ 10
- ☐ 23
- ☒ 50 ✓
- ☐ The code will cause an error.

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

Your answer is correct.

Click "Next page" to continue

The correct answer is: 50

Question 12

Correct
Mark 1.00 out of 1.00

What do you need to do before you read or write to a file?

Select one:

- ☐ Create the file
- ☒ Call `fopen` on the file ✓
- ☐ Call `fclose` on the file
- ☐ Use `fprintf`

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

Your answer is correct.

Click "Next page" to continue

The correct answer is: Call `fopen` on the file

Question 13

Correct
Mark 1.00 out of 1.00


What does the following Unix command do (prog is a program)?

`prog < abc.txt > def.txt`

Select one:

- ☐ Writes the content of `abc.txt` into `prog`.

cross out
- ☐ Writes the content of `abc.txt` into `def.txt`, which is then passed as argument to the program `prog`.

cross out
- ☒ Redirects input from `abc.txt` into program `prog` and redirects the output into `def.txt`. 

cross out
- ☐ Compares the sizes of files `prog`, `abc.txt`, and `def.txt`.

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: Redirects input from `abc.txt` into program `prog` and redirects the output into `def.txt`.

Question 14

Correct
Mark 1.00 out of 1.00

What does the following code snippet print?

```
char str[10];
sprintf(str, "/usr/bin/time ./a2 -n 40");
printf("%s\n", str);
```

Select one:

- ☐ `/usr/bin/time ./a2 -n 40`

cross out
- ☐ `/usr/bin/t`

cross out
- ☐ Empty string (i.e., "")

cross out
- ☒ The code has an error, 

cross out

Your answer is correct.

Click "Next page" to continue


The correct answer is: The code has an error,

Question 15

Correct
Mark 1.00 out of 1.00

How do you write a string of text into a file?

Select one:

- ☒ Open file and use `fprintf` 

cross out
- ☐ Open a file and use `printf`, the output will go to the file instead of the screen

cross out
- ☐ Open a file, and use `fputc` repeatedly

cross out
- ☐ Use `fread` to read data into the file

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: Open file and use `fprintf`