<u>Dashboard</u> / My courses / <u>CMPUT 201 (LEC A1 A2 A3 Fall 2020)</u> / <u>Week 9: October 26,28,30</u> / <u>Quiz #7 (up to Lecture 18/Chap 12)</u>

Started on Friday, 30 October 2020, 1:05 PM

State Finished

Completed on Friday, 30 October 2020, 1:15 PM

Time taken 10 mins 1 sec

Marks 13.00/15.00

Grade 86.67 out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

What is * (a + 8) equivalent to?

Select one:

- a [8]
- □ a[0] + 8
 □ &a[8]
 cross out
 - It depends on how many bytes an int occupies on the machine.
- None of the above. *
 <u>cross out</u>

Your answer is incorrect.

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:

- cross out
 cross out
 - 9 <u>cross out</u>
 - 12 <u>cross out</u>
 15 ✓ <u>cross out</u>
 - 18 <u>cross out</u>

Your answer is correct.

Click "Next page" to continue

The correct answer is: 15

cross out

Correct

Mark 1.00 out of 1.00

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

Select all that apply:

- Global variables make it easier to debug code <u>cross out</u>
- Reusing a variable among many functions 🗸
- Functions that use global variables are easy to reuse in other programs
- ✓ Few functions reusing many common variables ✓

cross out

cross out

Your answer is correct.

int x = 9999;

Click "Next page" to continue

The correct answers are: Reusing a variable among many functions, Few functions reusing many common variables

Question 4

Correct

Mark 1.00 out of 1.00

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

```
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
 cross out cross out cross out
- 501 ✓ cross out
 - 500 cross out
 - 1000 cross out
- O 9999 <u>cross out</u>

Your answer is correct.

Click "Next page" to continue

The correct answer is: 501

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

cross out

False

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: True

Question 6

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

■ False ✓

<u>cross out</u>

Your answer is correct.

Click "Next page" to continue

The correct answer is: False

${\bf Question}~{\bf 7}$

Correct

Mark 1.00 out of 1.00

What is wrong with the following code?

```
unsigned long i = 1000;
int *p = i;
```

Select one:

Pointer and variable types are incompatible

cross out

Everything is correct

<u>cross out</u>

Code will not compile

<u>cross out</u>

Variable i is not declared

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: Pointer and variable types are incompatible

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); ✔

cross out

scanf("%d", a);

cross out cross out

scanf("%d", *a);

cross out

scanf("%d", &p); **/**

scanf("%d", p); ✓

cross out

scanf("%d", *p);

cross out

Your answer is correct.

Click "Next page" to continue

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

Question 9

Correct

Mark 1.00 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; 🗸

cross out

*p = &a;

cross out

&p = *a;

cross out

p = *a;

cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: p = &a;

Question 10

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:

p = q;

cross out

*p = &q;

cross out

cross out

cross out

Your answer is correct.

Click "Next page" to continue

*p = *q; 🗸

The correct answer is: *p = *q;

Correct

Mark 1.00 out of 1.00

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

Select one:

```
int f(int *a);

int &f(int a);

int *f(int *a); ✓

cross out

cross out
```

Pointers are invalid return types for functions.

cross out

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
2	cross out
0	cross out
The expression will result in undefined behaviour. ✓	cross out
The expression will cause an error.	cross out

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:



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]

<u>cross out</u>

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

Incorrect

Mark 0.00 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]

<u>cross out</u>

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

cross out

The expression will result in an error. X

Your answer is incorrect.

Click "Next page" to continue

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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