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Started on	Thursday, 15 October 2020, 1:42 AM
State	Finished
Completed on	Thursday, 15 October 2020, 2:02 AM
Time taken	20 mins 1 sec
Marks	14.50/15.00
Grade	96.67 out of 100.00

Question 1

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

[cross out](#)

☒ False ✓

[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: False

Question 2

Correct
Mark 1.00 out of 1.00

Consider the following two function declarations:

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

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

How will these two functions behave differently?

Select one:

☒ There is no difference in functionality. ✓

[cross out](#)

☐ `function_a` will make sure that `arr` has exactly `n` elements, or throw an error. `function_b` will perform no such checks.

[cross out](#)

☐ `function_b` has a syntax error.

[cross out](#)

☐ `function_a` has a syntax error.

[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: There is no difference in functionality.

Question 3

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

[cross out](#)

☒ False ✓

[cross out](#)

Your answer is correct.

Click "Next page" to continue

The correct answer is: False

Question 4

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. cross out
- ☐ They are not useful at all. cross out
- ☒ They help developers avoid duplicating code and increase code reuse. cross out
- ☒ They help developers divide a program into smaller, more manageable chunks. cross out
- ☐ They always return something. cross out

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 5

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

Your answer is correct.

Click "Next page" to continue

The correct answer is: It does not compile.

Question 6

Correct
Mark 1.00 out of 1.00

Suppose we have the following variables:

```
float x = 10.5;  
double y = 10.0;
```

What type promotions, if any, will occur in the expression `x + y`?

Select one:

- ☒ `x` will be promoted to a `double` cross out
- ☐ `y` will be promoted to a `float` cross out
- ☐ Both `x` and `y` will be promoted to a `long double` cross out
- ☐ No promotions will happen. cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: `x` will be promoted to a `double`

Question 7

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

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

Your answer is correct.
Click "Next page" to continue
The correct answers are: 10., 10e-0, 1E1, 100.E-1

Question 8

Correct
Mark 1.00 out of 1.00

Considering the bit storage for floating point numbers, if the value 10.0 is stored in a float, how many bits in its binary representation will be set to 1?

Select one:

- ☐ 1
- ☒ 3 ✓
- ☐ 5
- ☐ 7
- ☐ None of the other answers are correct.

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

Your answer is correct.
Click "Next page" to continue
The correct answer is: 3

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 ✓

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

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 ✓

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

Your answer is partially correct.
Click "Next page" to continue
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

[cross out](#)

[cross out](#)

[cross out](#)

[cross out](#)

Your answer is correct.

Click "Next page" to continue

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

[cross out](#)

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Your answer is correct.

Click "Next page" to continue

The correct answer is: 501

Question 13

Correct

Mark 1.00 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

[cross out](#)

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Your answer is correct.

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

[cross out](#)

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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

~~cross out~~
~~cross out~~
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Your answer is correct.

Click "Next page" to continue

The correct answer is: 15

◀ Practice Quiz #5 (up to Lecture 13/Chap 10)

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