

2020FA-COSC-1436-81001 2020FA Programming Fundamentals I (COSC-1436-81001)

Course Modules

Unit 3 Review Test Submission: Test 3

Review Test Submission: Test 3

User	Saliou Diallo
Course	2020FA Programming Fundamentals I (COSC-1436-81001)
Test	Test 3
Started	11/30/20 5:40 PM
Submitted	11/30/20 6:36 PM
Due Date	11/30/20 11:59 PM
Status	Completed
Attempt Score	152.19 out of 160.2 points
Time Elapsed	56 minutes out of 1 hour
Instructions	<p>You should do the reading assignment and study the covered chapters (for the Lecture Unit) before starting the test.</p> <p>Tests must be taken on eCampus within the scheduled period. No late attempts will be allowed.</p> <p>The tests count for 120 points and have a 60 minutes time limit. Make sure you allocate enough time to take the test, because once you start, you have to finish it. Do not close the browser window because if you leave the test page/window, you are not going to be able to return and continue the test. Be aware that, if you running other programs in the background, they may slow down your computer (and take you longer to finish the test) and some may even break/stop your computer or browser (and you may lose the browser window and prevent you from finishing the test). Thus, close all the unnecessary programs and browser tabs (that use a lot of memory or same browser) to avoid that.</p> <p>The tests are closed-book. You are not allowed to use any electronic or paperback sources or receive any help from other people. Any attempt will yield you a 0 on the test.</p> <p>Tests are scored automatically by eCampus and you will be able to see you grade immediately (on the submission confirmation screen and under Course Grades), unless you exceed the time limit (in which case you will see a green icon with a white exclamation mark for that test until I have time to find out how much extra time you used and lower your score appropriately).</p> <p>When the 60 minutes limit is reached, the test will automatically submit so make sure you monitor your timer and make progress in the test. Do not spend more than a</p>

minute on a question.

If anything happens during your first attempt that prevented you from finishing your test, you can take a **second attempt** (on a new set of questions). The grade from your second attempt will replace your grade from the first attempt. If the issues that prevented you from finishing the first attempt were technical, make sure you fix them before taking the second attempt because technical issue may likely cause a fail on the second attempt too. **There is a limit of 2 attempts per test so use them wisely.**

Take the exam earlier to avoid any extra minute penalty and to avoid last minute issues.

Students missing a test can take an **Alternate Test** at the end of the semester to replace their lowest test score.



Results
Submitted Answers
Displayed

Question 1

2.67 out of 2.67 points

Functions that do not have a return type are called ____ functions.

Selected Answer: void

Question 2

2.67 out of 2.67 points

What value is returned by the following `return` statement?

```
int x = 5;
```

```
return x + 1;
```

Selected Answer: 6

Question 3

2.67 out of 2.67 points

Consider the following declaration.

```
char charArray[51];
```

```
char discard;
```

Assume that the input is:

```
Hello There!
```

```
How are you?
```

What is the value of `discard` after the following statements execute?

```
cin.get(charArray, 51);
```

```
cin.get(discard);
```

Selected Answer:

```
discard = '\n'
```

Question 4

2.67 out of 2.67 points

Before using the data type `string`, the program must include the header file ____.

Selected Answer: `string`

Question 5

2.67 out of 2.67 points

Consider the following statement: `int alpha[25][10];`. Which of the following statements about `alpha` is true?

Selected

Answer: Rows of `alpha` are numbered 0...24 and columns are numbered 0...9.

Question 6

2.67 out of 2.67 points

Given the following function:

```
int next(int x)
{
    return (x + 1);
}
```

what is the output of the following statement?

```
cout << next(next(5)) << endl;
```

Selected Answer: 7

Question 7

2.67 out of 2.67 points

Assume the following.

```
static_cast<int>('a') = 97
static_cast<int>('A') = 65
```

The output of the statement:

```
cout << static_cast<int>(tolower('B')) << endl; is ____.
```

Selected Answer: 98

Question 8

2.67 out of 2.67 points

Suppose that `gamma` is an array of 50 components of type `int` and `j` is an `int` variable. Which of the following `for` loops sets the index of `gamma` out of bounds?

Selected Answer: `for (j = 0; j <= 50; j++)`
 `cout << gamma[j] << " ";`

Question 9

2.67 out of 2.67 points

Consider the following declaration `int alpha[3];`. Which of the following input statements correctly inputs values into `alpha`?

Selected Answer: `cin >> alpha[0]`
 `>> alpha[1]`
 `>> alpha[2];`

Question 10

2.67 out of 2.67 points

After the following statements execute, what are the contents of `matrix`?

```
int matrix[3][2];
int j, k;

for (j = 0; j < 3; j++)
    for (k = 0; k < 2; k++)
        matrix[j][k] = j + k;
```

Selected Answer: 0 1
 1 2
 2 3

Question 11

2.67 out of 2.67 points

What is the output of the following C++ code?

```
int alpha = 5;
int beta = 10;

alpha = alpha + 5;

{
    int alpha = 20;
```

```
        beta = beta + 5;
    }

    cout << alpha << " " << beta << endl;

    Selected Answer:    10 15
```

Question 12

0 out of 2.67 points

Which of the following functions with default parameters is correct:

Selected Answer: void function1 (int x=1, double y, char z);

Question 13

2.67 out of 2.67 points

What is the difference between the following two functions:

```
int Function1 (int x, int y);
void Function2 (int x, int y, int &z);
```

Selected Answer: All of the above.

Question 14

0 out of 2.67 points

What is the output of the following program:

```
void func()
{
    int x = 0;
    static int y = 0;
    x++;
    y++;
    cout << x << " " << y << endl;
}
int main()
{
    int i;
    for(i=0; i<3; i++)
        func();
    return 0;
}
```

Selected Answer: 1 1
2 2
3 3

Question 15

2.67 out of 2.67 points

For the function with the prototype: `int test(float x, char y, string z);` the function type is ____

Selected Answer: `int`

Question 16

2.67 out of 2.67 points

Assume you have the following declaration `int beta[50];`. Which of the following is a valid element of `beta`?

Selected Answer: `beta[0]`

Question 17

2.67 out of 2.67 points

Which of the following statements declares `alpha` to be an array of 25 components of the type `int`?

Selected Answer: `int alpha[25];`

Question 18

2.67 out of 2.67 points

In C++, you can create aliases to a previously defined data type by using the ____ statement.

Selected Answer: `typedef`

Question 19

2.67 out of 2.67 points

Given the function prototype: `double testAlpha(int u, char v, double t);` which of the following statements is legal?

Selected Answer: `cout << testAlpha(5, 'A', 2);`

Question 20

2.67 out of 2.67 points

The ____ of an identifier refers to where in the program an identifier is accessible (visible).

Selected Answer: `scope`

Question 21

2.67 out of 2.67 points

Suppose that you are given the following function definition:

```
void printSomething(int x)
{
    for (int i = 1; i <= x, i++)
        cout << "*" << endl;
}
```

What is the output of the following statements?

```
printSomething(1);
printSomething(2);
printSomething(3);
```

Selected Answer: *

 * *

 * * *

Question 22

2.67 out of 2.67 points

Suppose that you have the following function.

```
void mystery(int& one, int two)
{
    int temp

    temp = one;
    one = two;
    two = temp;
}
```

What are the values of *x* and *y* after the following statements? (Assume that variables are properly declared.)

```
x = 10;
y = 15;
mystery(x, y);
```

Selected Answer: x = 15; y = 15

Question 23

2.67 out of 2.67 points

___ a function refers to the creation of several functions with the same name.

Selected Answer: Overloading

Question 24

2.67 out of 2.67 points

If an & is attached after the data type of a formal parameter, then the formal parameter is a ____.

Selected Answer: reference parameter

Question 25

2.67 out of 2.67 points

What is the output of the following C++ code?

```
int list[5] = {0, 5, 10, 15, 20};
int j;

for (j = 1; j <= 5; j++)
    cout << list[j] << " ";
cout << endl;
```

Selected Answer: Code contains index out-of-bounds

Question 26

2.67 out of 2.67 points

The ____ function is used to interchange the contents of two string variables.

Selected Answer: swap

Question 27

2.67 out of 2.67 points

Which of the following statements declares the `studentGrade` variable?

Selected Answer: `enum grades {A, B, C, D, F} studentGrade;`

Question 28

2.67 out of 2.67 points

A collection of a fixed number of elements (called components) arranged in n dimensions ($n \geq 1$), called a(n) ____.

Selected Answer: n -dimensional array

Question 29

2.67 out of 2.67 points

Given the following code

```
namespace globalType
```



```
{  
    void printResult();  
}
```

which of the following statements is needed to access `printResult`?

Selected Answer: `globalType::printResult();`

Question 30

2.67 out of 2.67 points

Given the following declaration:

```
int j;  
int sum;  
double sale[10][7];
```

which of the following correctly finds the sum of the elements of the fourth column of `sale`?

Selected Answer:

```
sum = 0;  
for(j = 0; j < 10; j++)  
    sum = sum + sale[j][3];
```

Question 31

2.67 out of 2.67 points

Consider the following statements.

```
string str = "ABCDEFD";  
string::size_type position;
```

After the statement `position = str.find('D');` executes, the value of `position` is ____.

Selected Answer: 3

Question 32

2.67 out of 2.67 points

After the following statements execute, what are the contents of `matrix`?

```
int matrix[3][2];  
int j, k;  
  
for (j = 0; j < 3; j++)  
    for (k = 0; k < 2; k++)  
        matrix[j][k] = j + k;
```

Selected Answer:

0 1

1 2

2 3

Question 33

2.67 out of 2.67 points

Consider the declaration:

```
enum sports {BASKETBALL, FOOTBALL, HOCKEY, BASEBALL, SOCCER};
```

which of the following statements is true?

Selected Answer: `FOOTBALL <= SOCCER`

Question 34

2.67 out of 2.67 points

Assume you have the following declaration `char nameList[100];`. Which of the following ranges is valid for the index of the array `nameList`?

Selected Answer: 0 through 99

Question 35

2.67 out of 2.67 points

Suppose that `str1`, `str2`, and `str3` are string variables. After the following statements execute, the value of `str3` is "_____".

```
str1 = "abc";  
str2 = "xyz";  
str3 = str1 + '-' + str2;
```

Selected Answer: `abc-xyz`

Question 36

2.67 out of 2.67 points

Suppose that `sales` is an array of 50 components of type `double`. Which of the following correctly initializes the array `sales`?

Selected Answer: `for (int j = 0; j <= 49; j++)
 sales[j] = 0.0;`

Question 37

2.67 out of 2.67 points

Suppose `str = "xyzw";`. After the statement `str[2] = 'Y';` The value of `str` is "_____".

Selected Answer: xyYw

Question 38

2.67 out of 2.67 points

What is the output of the following C++ code?

```
int list[5] = {0, 5, 10, 15, 20};
int j;

for (j = 0; j < 5; j++)
    cout << list[j] << " ";
cout << endl;
```

Selected Answer: 0 5 10 15 20

Question 39

2.67 out of 2.67 points

Considering the statement `string str = "Gone with the wind";`, the output of the statement `cout << str.find("the") << endl;` is ____.

Selected Answer: 10

Question 40

2.67 out of 2.67 points

Before using the data type `string`, the program must include the header file ____.

Selected Answer: `string`

Question 41

2.67 out of 2.67 points

What is the value of `alpha[2]` after the following code executes?

```
int alpha[5];
int j;

for (j = 0; j < 5; j++)
    alpha[j] = 2 * j + 1;
```

Selected Answer: 5

Question 42

2.67 out of 2.67 points

Given the following declaration:

```
int j;  
int sum;  
double sale[10][7];
```

which of the following correctly finds the sum of the elements of the fifth row of sale?

Selected Answer: `sum = 0;
for(j = 0; j < 7; j++)
sum = sum + sale[4][j];`

Question 43

2.67 out of 2.67 points

Consider the following declaration `char str[15];`. Which of the following statements stores "Blue Sky" into str?

Selected Answer: `strcpy(str, "Blue Sky");`

Question 44

2.67 out of 2.67 points

Which of the following statements creates an anonymous type?

Selected Answer: `enum {A, B, C, D, F} grades;`

Question 45

2.67 out of 2.67 points

Suppose `str = "ABCDEFGHI"`. The output of the statement

```
cout << str.length() << endl;
```

is ____.

Selected Answer: 9

Question 46

2.67 out of 2.67 points

Given the function prototype:

```
float test(int, int, int);
```

which of the following statements is legal?

Selected Answer: `d. cout << test(7, 14, 23);`

Question 47

2.67 out of 2.67 points

The statement: `return 37, y, 2 * 3;` returns the value ____.

Selected Answer: b. 6

Question 48

2.67 out of 2.67 points

A variable listed in a header is known as a(n) ____ parameter.

Selected Answer: a. formal

Question 49

2.67 out of 2.67 points

The output of the statement:

```
cout << tolower('$') << endl;
```

is ____.

Selected Answer: a. '\$'

Question 50

2.67 out of 2.67 points

Given the following function prototype: `double tryMe(double, double);`, which of the following statements is valid? Assume that all variables are properly declared.

Selected Answer: a. `cout << tryMe(2.0, 3.0);`

Question 51

2.67 out of 2.67 points

Functions that do not have a return type are called ____ functions.

Selected Answer: a. void

Question 52

2.67 out of 2.67 points

The heading of the function is also called the ____.

Selected Answer: a. function header

Question 53

0 out of 2.67 points

A function prototype is ____.

Selected Answer: b. a definition, but not a declaration

Question 54

2.67 out of 2.67 points

The statement: `return 2 * 3 + 1, 1 + 5;` returns the value ____.

Selected Answer: c. 6

Question 55

2.67 out of 2.67 points

Which of the following function prototypes is valid?

Selected Answer: c. `int funcTest(int, int, float);`

Question 56

2.67 out of 2.67 points

Given the following function prototype: `int test(float, char);`, which of the following statements is valid?

Selected Answer: c. `int u = test(5.0, '*');`

Question 57

2.67 out of 2.67 points

Which of the following function prototypes is valid?

Selected Answer: b. `int funcExp(int x, float v);`

Question 58

2.67 out of 2.67 points

The statement: `return 8, 10;` returns the value ____.

Selected Answer: b. 10

Question 59

2.67 out of 2.67 points

The standard header file for the `abs (x)` function is ____.

Selected Answer: d. `<cmath>`

Question 60

2.67 out of 2.67 points

Given the following function:

```
int strange(int x, int y)
{
    if (x > y)
        return x + y;
    else
        return x - y;
}
```

what is the output of the following statement?

```
cout << strange(4, 5) << endl;
```

Selected Answer: a. -1

Monday, November 30, 2020 6:36:40 PM CST

← OK