Started on	Saturday, October 1, 2022, 7:30 PM
State	Finished
Completed on	Saturday, October 1, 2022, 7:35 PM
Time taken	5 mins 12 secs

Question **1**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output.

```
for (int count=12; count>=0; count-=2) {
  if (count%5==0) break;
  printf("%d", count);
}

```

Answer: 12 ✔

Question **2**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output.

```
for (int count=12; count>=0; count-=2) {
  if (count%5==0) {
    count++;
    continue;
  }
  printf("%d ", count);
}

```

Answer: 12 9 7 4 2 ✔

Question **3**

Correct

Points out of 2.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **x**, **y,** and **z** are defined as **int** type. In addition, variables **x** and **y** are initialized with values **4** and **5**, respectively.

Answer: 11 18 25 ✔

Question **4**

Correct

Points out of 2.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **count** is defined as type **int** and initialized with value **1**.

```
do {
  printf("%d ", count*(count-2));
} while(count++<=5);

```

Answer: -1 0 3 8 15 24 ✔

Question **5**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **x** and **y** are defined as type **int** and are initialized with values **5** and **50**, respectively.

```
1 do x += 10; while (x<y);
2 printf("%d", x);
3
```

Answer: 55 ✔

Question **6**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **x** and **y** are defined as type **int** and are initialized with values **5** and **80**, respectively.

```
1 do x *= 2; while (x<y);
2 printf("%d", x);
3
```

Answer: 80 ✔

Question **7**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume **x** and **y** are defined as type **int** and initialized with values **5** and **20**, respectively.

Answer: 7 ✔

Question **8**

Correct

Points out of 1.00

Walk through the following code fragment and write the exact output printed to standard output. Suppose that the input to the program is **5 3 8**. Assume all variables in the code fragment are of type **int**.

```
1 scanf("%d%d%d", &a, &b, &c);
2 for (j = 1; j < a; ++j) {
3   d = b + c;
4   b = c;
5   c = d;
6   printf("%d ", c);
7 }
8
```

Answer: 11 19 30 49 ✔

Question **9**

Correct

Points out of 1.00

Walk through the following code fragment and write the exact output printed to standard output. Assume all variables in the code fragment are of type **int**. Suppose that the input to the program is **38 35 72 24 -1**.

Answer: 169 ✔

Question **10**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **j** are defined as type **int**.

```
1 for (i=0, j=2; i<=5; ++i,j=2*j+3);
2 printf("%d", j);
3
```

Answer: 317 ✔

Question **11**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **j** are defined as type **int**.

```
1 for (i=0, j=0; i<5; ++i) {
2   j = 2*j+i;
3 }
4 printf("%d", j);
5
```

Answer: 26 ✔

Question **12**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume **i** and **j** are defined as variables of type **int**.

```
1 for (i=0, j=0; i<5; ++i);
2 {
3   j = 2*j+i;
4 }
5 printf("%d", j);
6
```

Answer: 5 ✔

Question **13**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Suppose that the input to the program is **58 23 46 75 24 -1**. Assume variables **num** and **sum** are defined as type **int**.

```
scanf(" %d %d", &sum, &num);
for (; num != -1; sum+=num) scanf(" %d", &num);
printf("%d", sum);

```

Answer: 202 ✔

Question **14**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Suppose that the input to the program is **58 23 46 75 24 -1**. Assume **num** and **sum** are variables of type **int**.

```
scanf(" %d %d", &sum, &num);
for (; num != -1; scanf(" %d", &num)) sum+=num;
printf("%d", sum);

```

Answer: 226 ✔

Question **15**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Suppose that the input to the program is **98 150 146 75 24 -1**. Assume variables **num** and **sum** are of type **int**.

```
scanf(" %d %d", &sum, &num);
for (; num != -1; sum+=num, scanf(" %d", &num)) ;
printf("%d", sum);

```

Answer: 493 ✔

Question **16**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Suppose that the input to the program is **98 150 146 75 24 -1**. Assume variables **num** and **sum** are of type **int**.

```
scanf(" %d %d", &sum, &num);
for (; num != -1; scanf(" %d", &num), sum+=num) ;
printf("%d", sum);

```

Answer: 342 ✔

Question **17**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Suppose that the input to the program is **58 23 46 75 98 150 12 176 145 -999**. Assume variable **num** is defined as type **int**.

```
for (scanf("%d",&num);
     num != -999;
     printf("%d ", num%25), scanf("%d", &num));

```

Answer: 8 23 21 0 23 0 12 1 20 ✔

Question **18**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Suppose that the input to the program is **58 23 46 75 98 150 12 176 145 -999**. Assume variable **num** is of type **int**.

```
for (scanf("%d",&num);
     num != -999;
     scanf("%d", &num), printf("%d ", num%25));

```

Answer: 23 21 0 23 0 12 1 20 -24 ✔

Question **19**

Correct

Points out of 4.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume all variables are defined as type **int**.

```
for (i=0, value=0; i<=20; ++i) {
  if (i%2==0&&i>10) value-=i;
  else if (i%2==0&&i<=10) value+=i;
  else value+=i*i;
}
printf("%d", value);

```

Answer: 1280 ✔

Question **20**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume all variables are defined as type **int**.

```
for (i=19683,x=19683,y=0; i>=1; i/=3,++y);
  printf("%d", y);

```

Answer: 10 ✔

Question **21**

Correct

Points out of 4.00

Create a text file containing the following integral values: **36 -350 712 -249 -10**. Walk through the following code fragment and write the exact output printed to standard output when the text file is redirected as input to the program. Assume variables **num** and **sum** are defined as type **int**.

Answer: 453 ✔

Question **22**

Correct

Points out of 2.00

Walk through the following code fragment and determine the value written to standard output. Now, write this value in the box below.

```
// definition of function foo
int foo(int b, int n) {
  int i, p;
  for (i = 1, p = 1; i <= n; ++i) p*=b;
  return p;
}

// calling foo() in main()
printf("%d", foo(6,4));

```

Answer: 1296 ✔

Question **23**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **count** are defined as type **int** and are initialized with values **5** and **0**, respectively.

```
while (i-->0) ++count;
printf("%d", count);

```

Answer: 5 ✔

Question **24**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **count** are defined as type **int** and initialized to values **1** and **0**, respectively.

Answer: 5 ✔

Question **25**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **count** are defined as type **int** and are initialized with values **100** and **1**, respectively.

```
while (count<100) {
  i--;
  ++count;
}
printf("%d,%d", i, count);

```

Answer: 1,100 ✔

Question **26**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **val** is of type **int** and is initialized with value **-5**.

```
while (val>5) val+=2;
printf("%d", val);

```

Answer: -5 ✔

Question **27**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **val** is defined as type **int** and is initialized with a value of **-5**.

```
1 while (val<13) val++;
2 printf("%d", val);
3
```

Answer: 13 ✔

Question **28**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume **val** is defined to be a variable of type **int** and is initialized with the value **-5**.

Answer: 14 ✔

Question **29**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **x**, **y**, and **z** are defined as type **int**. Also assume that variables **x** and **y** are initialized with values **4** and **5**, respectively.

Answer: 111825 ✔

Question **30**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **value** are defined as type **int** and both are initialized with the value **0**.

Answer: 200 ✔

Question **31**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **count** are defined as type **int** and both variables are initialized with the value **0**.

Answer: 10 ✔

Question **32**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variables **i** and **count** are defined as type **int** and are initialized with the values **5** and **0**, respectively.

Answer: 4 ✔

Question **33**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **ch** is defined as type **char** and is initialized with character constant **'B'**.

Answer: z ✔

Question **34**

Correct

Points out of 1.00

A loop is a control structure that causes certain statements to execute over and over.

Select one:

- True ✔
- False

Question **35**

Correct

Points out of 1.00

Consider the following code fragment where variable **j** is defined as **int** type and initialized with value **0**.

The **while** loop terminates when **j > 10**.

Select one:

- True
- False ✔

Question **36**

Correct

Points out of 1.00

To read data from a file of an unspecified length, an **EOF**-controlled loop is a good choice.

Select one:

- True ✔
- False

Question **37**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **`x`** is of type **`int`** and is initialized to value **`6`**.

Answer: 96 ✔

Question **38**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **`x`** is defined as type **`int`** and initialized with value **`1`**.

Answer: Win ✔

Question **39**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **`value`** is defined as type **`int`** and initialized with value **`17`**.

Answer: onetwo ✔

Question **40**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **`value`** is of type **`int`** and is initialized to value **`5`**.

Answer: 15 ✔

Question **41**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **`value`** is of type **`int`** and is initialized to value **`3`**.

Answer: 7 ✔

Question **42**

Correct

Points out of 1.00

Walk through the following code fragment and write the ***exact*** output printed to standard output. Assume variable **`value`** is of type **`int`** and is initialized to value **`2`**.

Answer: 2 ✔

◄ Lecture 10 [09/28/2022]: Functions and Call-By-Value Semantics

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Quiz 7: Increment and Decrement Operators ►