Dashboard / My courses / RSE1201 / September 19 - September 25 / Quiz 4: Arithmetic, Relational, and Logical Operators

Started on	Wednesday, September 28, 2022, 3:46 PM
State	Finished
Completed on	Wednesday, September 28, 2022, 4:10 PM
Time taken	23 mins 59 secs
Grade	**38.00** out of 38.00 (**100**%)

Question **1**

Correct

1.00 points out of 1.00

Operators with the same precedence level must have the same associativity too.

Select one:
- ● True ✔
- ○ False

The correct answer is 'True'.

Question **2**

Correct

1.00 points out of 1.00

The binary operator `%` is applied to compute

Select one:
- ○ floating-point division
- ○ none of the above
- ● the remainder of integer division ✔
- ○ integer division
- ○ the remainder of floating-point division

Your answer is correct.

The correct answer is: the remainder of integer division

Question **3**

Correct

1.00 points out of 1.00

Given the equation $y = ax^3 + 7$, which of the following, if any, are correct C statements for this equation?

Select one or more:
- ☑ `y = a * x * x * x + 7;` ✔
- ☑ `y = a * ( x * x * x ) + 7;` ✔
- ☐ `y = a * x * x * ( x + 7 );`
- ☐ `y = ( a * x ) * x * ( x + 7 );`
- ☑ `y = ( a * x ) * x * x + 7;` ✔
- ☐ `y = a * x * ( x * x + 7 );`

Your answer is correct.

The correct answers are: `y = a * x * x * x + 7;`, `y = ( a * x ) * x * x + 7;`, `y = a * ( x * x * x ) + 7;`

Question **4**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `13/4`?

Select one:

○ Expression evaluates to value `3.25` of type `double`

○ Expression evaluates to value `3.25` of type `float`

○ Expression evaluates to value `3` of type `long int`

○ Expression evaluates to value `3` of type `short int`

◉ Expression evaluates to value `3` of type `int` ✔

Your answer is correct.

The correct answer is: Expression evaluates to value `3` of type `int`

Question **5**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `13/4.f`?

Select one:

○ Expression evaluates to value `3` of type `short int`

○ Expression evaluates to value `3` of type `int`

◉ Expression evaluates to value `3.25` of type `float` ✔

○ Expression evaluates to value `3` of type `long int`

○ Expression evaluates to value `3.25` of type `double`

Your answer is correct.

The correct answer is: Expression evaluates to value `3.25` of type `float`

Question **6**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `13.0/4.0`?

Select one:

○ Expression evaluates to value `3.25` of type `int`

◉ Expression evaluates to value `3.25` of type `double` ✔

○ Expression evaluates to value `3.25` of type `long`

○ Expression evaluates to value `3.25` of type `long double`

○ Expression evaluates to value `3.25` of type `float`

Your answer is correct.

The correct answer is: Expression evaluates to value `3.25` of type `double`

Question **7**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `13UL/4`?

Select one:

◉ Expression evaluates to value **3** of type `unsigned long int` ✔

○ Expression evaluates to value **3** of type `long int`

○ Expression evaluates to value **3** of type `unsigned short int`

○ Expression evaluates to value **3** of type `unsigned int`

○ Expression evaluates to value **3** of type `int`

Your answer is correct.

The correct answer is: Expression evaluates to value **3** of type `unsigned long int`

Question **8**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `13L/4.0L`?

Select one:

○ Expression evaluates to value **3** of type `long int`

○ Expression evaluates to value **3.25** of type `float`

○ Expression evaluates to value **3.25** of type `double`

◉ Expression evaluates to value **3.25** of type `long double` ✔

○ Expression evaluates to value **3** of type `int`

Your answer is correct.

The correct answer is: Expression evaluates to value **3.25** of type `long double`

Question **9**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `2.f+3/5`?

Select one:

○ Expression evaluates to value **2** of type `int`

○ Expression evaluates to value **2.0** of type `double`

○ Expression evaluates to value **2.6** of type `float`

◉ Expression evaluates to value **2.0** of type `float` ✔

○ Expression evaluates to value **2.6** of type `double`

Your answer is correct.

The correct answer is: Expression evaluates to value **2.0** of type `float`

Question **10**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `2/4*4.0`?

Select one:

○ Expression evaluates to value `4.0` of type `double`

○ Expression evaluates to value `4.0` of type `float`

○ Expression evaluates to value `4.5` of type `float`

○ Expression evaluates to value `4` of type `long int`

◉ Expression evaluates to value `0` of type `double` ✔

○ Expression evaluates to value `4.5` of type `double`

Your answer is correct.

The correct answer is: Expression evaluates to value `0` of type `double`

Question **11**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `2+3*4`?

Select one:

○ Expression evaluates to value `20` of type `unsigned int`

○ Expression evaluates to value `14` of type `unsigned int`

○ Expression evaluates to value `20` of type `long int`

○ Expression evaluates to value `20` of type `int`

○ Expression evaluates to value `14` of type `long int`

◉ Expression evaluates to value `14` of type `int` ✔

Your answer is correct.

The correct answer is: Expression evaluates to value `14` of type `int`

Question **12**

Correct

1.00 points out of 1.00

What is the *value* and the *type* of the result obtained by evaluating expression `24/3*4`?

Select one:

○ Expression evaluates to value `32` of type `unsigned int`

◉ Expression evaluates to value `32` of type `int` ✔

○ Expression evaluates to value `2` of type `unsigned int`

○ Expression evaluates to value `2` of type `long int`

○ Expression evaluates to value `2` of type `int`

○ Expression evaluates to value `32` of type `long int`

Your answer is correct.

The correct answer is: Expression evaluates to value `32` of type `int`

Question **13**
Correct
1.00 points out of 1.00

Variables **a** and **b** are defined as type **int** and initialized to values **5** and **16**, respectively. Write the values assigned to variables **a** and **b** by the following expression's evaluation:

```
b=a+=a+2.5
```

This is how you provide your answer: Supposing **a** and **b** have been assigned values **10** and **11** by the expression's evaluation, you **must** write your answer as **10,11**.

Answer: 12,12   ✔

The correct answer is: 12,12

Question **14**
Correct
1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type **int** and initialized to values **13**, **16**, and **10**, respectively. Write the values assigned to variables **a** and **b** by the following expression's evaluation:

```
b+=a-=b+c
```

This is how you provide the answer: Supposing **a** and **b** have been assigned values **10** and **11** by the expression's evaluation, you **must** write the answer as **10,11**.

Answer: -13,3   ✔

The correct answer is: -13,3

Question **15**
Correct
1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type **int** and initialized to values **10**, **13**, and **16**, respectively. Write the values assigned to variables **a** and **b** by the following expression's evaluation:

```
b -= a = b + c - a
```

This is how you provide your answer: If **a** and **b** are assigned values **10** and **20**, respectively, you **must** write your answer as **10,20**.

Answer: 19,-6   ✔

The correct answer is: 19,-6

Question **16**
Correct
1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type **int** and initialized to values **6**, **8**, and **10**, respectively. Write the values assigned to variables **a** and **b** after the following expression's evaluation:

```
b += a = b + c - 2.5
```

This is how you should provide the answer: Supposing **a** is assigned value **0** and **b** is assigned value **1**, you **must** write your answer as **0,1**.

Answer: 15,23   ✔

The correct answer is: 15,23

Question **17**

Correct

1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type `int` and initialized to values **5**, **6**, and **7**, respectively. Write the value assigned to variable **a** after the following expression's evaluation:

$$a\texttt{*=}b\texttt{==}c$$

Answer: 0   ✔

The correct answer is: 0
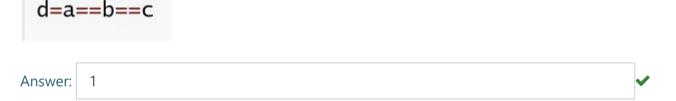
Question **18**

Correct

1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type `int` and initialized to values **5**, **0**, and **10**, respectively. Write the value assigned to variable **c** after the following expression's evaluation:

$$c\texttt{=!}a\texttt{!=!}b$$

Answer: 1   ✔

The correct answer is: 1

Question **19**

Correct

1.00 points out of 1.00

Variables **a**, **b**, **c**, and **d** are defined as type `int` and initialized to values **15**, **10**, **0**, and **20**, respectively. Write the value assigned to **d** after the following expression's evaluation:

$$d\texttt{=}a\texttt{==}b\texttt{==}c$$

Answer: 1   ✔

The correct answer is: 1

Question **20**

Correct

1.00 points out of 1.00

All variables in the expression

$$e\texttt{=}a\texttt{<}b\texttt{!=}c\texttt{>}d$$

are defined as type `int` with variables **a**, **b**, **c**, **d**, and **e** initialized to values **15**, **−10**, **10**, **−15**, **20**, respectively. Write the value assigned to variable **e** after the following expression's evaluation.

Answer: 1   ✔

The correct answer is: 1

Question **21**

Correct

1.00 points out of 1.00

Variables **a** and **c** are defined as type `int` and initialized to values **−1** and **3**, respectively. Variable **b** is defined as type `unsigned int` and initialized to value **0**. Write the value assigned to variable **c** after the following expression's evaluation:

$$c\ \texttt{=}\ a\texttt{<}b$$

Answer: 0   ✔

The correct answer is: 0

Question **22**

Correct

1.00 points out
of 1.00

All variables in the following expression are defined as type **int** with variables **a**, **b**, **c**, **d**, and **e** initialized to values **5**, **16**, **7**, **8**, and **13**, respectively. Write the value assigned to variable **f** after the following expression's evaluation:

$$f = a*b-c*d+e$$

Answer: | 37 | ✔

The correct answer is: 37

Question **23**

Correct

1.00 points out
of 1.00

All variables in the code fragment below are defined as type **int** with variables **a**, **b**, **d**, and **e** initialized to values **5**, **6**, **8**, and **13**, respectively. Write the value assigned to variable **f** after the following expression's evaluation:

$$f = a/b\%d/e*e$$

Answer: | 0 | ✔

The correct answer is: 0

Question **24**

Correct

1.00 points out
of 1.00

All variables in following expression are defined as type **int** with variables a, **b**, **c**, **d**, and **e** assigned values **5**, **16**, **7**, **8**, and **-2**, respectively. Write the value assigned to variable **f** after the following expression's evaluation:

$$f = -a-b+c-+d*e$$

Answer: | 2 | ✔

The correct answer is: 2

Question **25**

Correct

1.00 points out
of 1.00

All variables in following expression are defined as type int with variables **a**, **b**, **c**, **d**, and **e** initialized to values **5**, **16**, **7**, **8**, and **-2**, respectively. Write the value assigned to variable **f** after the following expression's evaluation:

$$f = a*-b/c-d/e$$

Answer: | -7 | ✔

The correct answer is: -7

Question **26**

Correct

1.00 points out
of 1.00

All variables in the following expression are defined as type **int** with variables **a**, **b**, and **c** initialized to values **15**, **6**, and **5**, respectively. Write the value assigned to variable **d** after the following expression's evaluation:

$$d = a*b==c$$

Answer: | 0 | ✔

The correct answer is: 0

Question **27**

Correct

1.00 points out of 1.00

All variables in the following expression are defined as type **int** with variables **a**, **b**, and **c** initialized to values **15**, **6**, and **5**, respectively. Write the value assigned to variable **d** after the following expression's evaluation:

$$d = a>b<c$$

Answer: 1 ✓

The correct answer is: 1

Question **28**

Correct

1.00 points out of 1.00

All variables in following expression are defined as type **int** with variables **a**, **b**, and **c** initialized to values **5**, **16**, and **10**, respectively. Write the value assigned to variable **d** after the following expression's evaluation:

$$d = a<b==b<c$$

Answer: 0 ✓

The correct answer is: 0

Question **29**

Correct

1.00 points out of 1.00

All variables in the following expression are defined as type **int** with variables **a**, **b**, and **c** initialized to values **5**, **16**, and **10**, respectively. Write the value assigned to variable **d** after the following expression's evaluation:
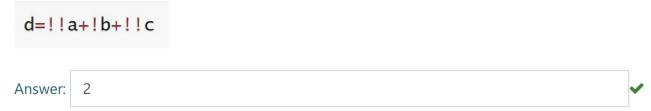
$$d = a\%b+a<=c$$

Answer: 1 ✓

The correct answer is: 1

Question **30**

Correct

1.00 points out of 1.00

All variables in the following expression are defined as type **int** with variables **a**, **b**, and **c** initialized to values **15**, **10**, and **5**, respectively. Write the value assigned to variable **d** after the following expression's evaluation:

$$d = !a>!b<=!c$$

Answer: 1 ✓

The correct answer is: 1

Question **31**

Correct

1.00 points out of 1.00

All variables in following expression are defined as type **int** with variables **a**, **b**, and **c** initialized to values **15**, **10**, and **5**, respectively. Write the value assigned to variable **d** by the following expression's evaluation:

$$d=!!a+!b+!!c$$

Answer: 2 ✓

The correct answer is: 2

Question **32**

Correct

1.00 points out of 1.00

Variables **a** and **b** are defined as type **int** with variable **a** initialized to value **18**. Write the value assigned to **b** after the following expression's evaluation:

b=a>=1<=10

Answer: 1 ✓

The correct answer is: 1

Question **33**

Correct

1.00 points out of 1.00

Variables **a** and **b** are defined as type **int** with variable **a** initialized to value **18**. Write the value assigned to **b** after the following expression's evaluation:

b = 11<=a<=5

Answer: 1 ✓

The correct answer is: 1

Question **34**

Correct

1.00 points out of 1.00

Variables **a** and **b** are defined as type **int** with variable **a** initialized to value **10**. Write the value assigned to **b** after the following expression's evaluation:

b=a>=0?-a:a

Answer: -10 ✓

The correct answer is: -10

Question **35**

Correct

1.00 points out of 1.00

Variables **a** and **b** are defined as type **int** with variable **a** initialized to value **−10**. Write the value assigned to **b** after the following expression's evaluation:

b=a>0?1:a<0?-1:0

Answer: -1 ✓

The correct answer is: -1

Question **36**

Correct

1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type **int** with variables **a** and **b** initialized to values **1** and **−1**, respectively. Write the value assigned to **c** after the following expression's evaluation:

c=a==b?a+2:b+5

Answer: 4 ✓

The correct answer is: 4

Question **37**

Correct

1.00 points out of 1.00

Variables **a**, **b**, and **c** are defined as type **int** with variables **a** and **b** initialized to values **−10** and **5**, respectively. Write the value assigned to **c** after the following expression's evaluation:

```
c=a=b?b+5:a-5
```

Answer: 10   ✔

The correct answer is: 10

Question **38**

Correct

1.00 points out of 1.00

Variable **ui** is defined as type **unsigned int** and is initialized to value **64**. On the other hand, variable **x** is defined as type **int** and is initialized to value **12**. Write the value assigned to variable **x** by the following expression's evaluation:

```
x = ui > -1
```

Answer: 0   ✔

The correct answer is: 0

◄ Lecture 8: One More Iteration Structure [for statement]

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Quiz 5: Selection Statements; Relational and Logical Operators ►