CSA WS 07I (Practice)

Started: Oct 28 at 8:05pm

Quiz Instructions

2 attempts allowed

Highest score counted

Question 1	100 pts

What will be the value of x after the following code is executed?

```
int x = 75;
int y = 60;
if (x > y)
    x = x - y;
```

- ◉ 15
- ○ 60
- ○ 135
- ○ 75

Question 2	100 pts

What will be the value of `ans` after the following code is executed?

```
int ans = 10;
int x = 65;
int y = 55;
if (x >= y)
      ans = x + y;
```

- ○ 100

- ○ 10

- ⦿ 120

- ○ No value, there is a syntax error

Question 3

100 pts

What will be the value of `ans` after the following code is executed?

```
int x = 90, y = 55, ans = 10;
if ( x == y);
      ans *= 2;
```

- ⦿ 10

- ○ 20

- ○ No value, there is a syntax error

- ○ 145

Question 4

100 pts

If `chr` is a variable of type `char`, which of the following `if` statements is written correctly?

- ⦿ `if (chr == 'a')`

- ◯ `if (chr.equals('a')`

- ◯ `if (chr.equals("a")`

- ◯ `if (chr == "a")`

Question 5

100 pts

What will be the value of `ans`, `x`, and `y` after the following code is executed?

```
int ans = 35, x = 50, y =50;
if ( x >= y)
{
ans = x + 10;
x -= y;
}
else
{
ans = y + 10;
```

```
y += x;
}
```

  ◯   ans = 45, x = 50, y = 50

  ◯   ans = 60, x = 50, y = 100

  ◯   ans = 45, x = 50, y = 0

  ◉   ans = 60, x = 0, y = 50

  ◯   No value, this is a syntax error

Question 6   **100 pts**

What will be the value of `bonus` after the following code is executed?

```
int bonus, sales = 10000;
if (sales < 5000)
     bonus = 200;
else if (sales < 7500)
     bonus = 500;
else if (sales < 10000)
     bonus = 750;
else if (sales < 20000)
     bonus = 1000;
else
     bonus = 1250;
```

○ 500

○ 1250

⦿ 1000

○ 750

○ 200

Question 7   **100 pts**

If you prematurely terminate an `if` statement with a semicolon, what does the compiler do?

I	displays an error message
II	does not display an error message
III	assumes that there is nothing to do when the condition is true

○ I and III only

○ I only

○ III only

○ II only

⦿ II and III only

Question 8   **100 pts**

What will be the value of `bonus` after the following code is executed?

```
int bonus, sales = 1250;
if (sales > 1000)
      bonus = 100;
if (sales > 750)
      bonus = 50;
if (sales > 500)
      bonus = 25;
else
      bonus = 0;
```

○ 1250

○ 25

○ 0

○ 500

◉ 100

Question 9   **100 pts**

What will be the value of `bonus` after the following code is executed?

```
int bonus, sales = 85000;
```

```
char dept = 'S';
if (sales > 100000)
      if (dept == 'R')
      bonus = 2000;
      else
      bonus = 1500;
else if (sales > 75000)
      if (dept == 'R')
      bonus = 1250;
      else
      bonus = 1000;
else
      bonus = 0;
```

○ 1500

○ 1250

○ No value, this is a syntax error

○ 2000

⦿ 1000

Question 10

100 pts

Which of the following is the correct `boolean` expression to test for: `int x` being a value between, but not including, 500 and 650, or `int y` not equal to 1000?

○ `((x >= 500 && x <= 650) && (y != 1000))`

◉ `((x > 500 && x < 650) || (y != 1000))`

○ `((x < 500 && x > 650) || !(y == 1000))`

○ `((x > 500 AND x < 650) OR !(y.equals(1000)))`

Question 11

100 pts

_____ works like this: If the expression on the left side of the `&&` operator is `false`, the expression the right side will not be checked?

○ Boolean logic

○ Reverse logic

◉ Short-circuit evaluation

○ Mathematical logic

Question 12

100 pts

What would be the value of `x` after the following statements were executed?

```
int x = 10;
switch (x)
```

```
{
        case 10:
            x += 15;
        case 12:
            x -= 5;
            break;
        default:
            x *= 3;
}
```

○ 5

○ 30

○ 25

○ No value, this is a syntax error

◉ 20

Question 13

100 pts

What is the value of x after the following code has been executed?

```
int x = 75;
int y = 90;
if ( x != y)
        x += y;
```

○ 90

◉ 165

○ No value, this is a syntax error

○ 15

○ 75

Question 14

100 pts

What is the value of `ans` after the following code has been executed?

```
int x = 40;
int y = 40;
int ans = 0;
if (x = y)
    ans = x + 10;
```

○ 30

○ 40

○ 80

○ 50

◉ No value, this is a syntax error

Question 15   100 pts

What is the value of `ans` after the following code has been executed?

```
int x = 35;
int y = 20, ans = 80;
if (x < y);
     ans += y;
```

◉ 100

○ 55

○ No value, this is a syntax error

○ 80

○ 35

Question 16   100 pts

Which of the following correctly tests the `char` variable `chr` to determine whether it is NOT equal to the character B?

◉ `if (chr != 'B')`

○ `if (chr <> 'B'))`

○ `if NOT(chr.equals('B'))`

○ `if NOT(chr = 'B')`

○ `if !(chr = 'B')`

Question 17   **100 pts**

In an `if-else` statement, if the condition in the `if` part is `false`, then

⦿ the first statement or first block following `else` is executed

○ the first statements/blocks following `if` and `else` are executed

○ the first statement or first block following `if` is executed

○ no statements/blocks following `if` or `else` are executed

Question 18   **100 pts**

What will be the values of `ans`, `x`, and `y` after the following statements are executed?

```
int ans = 0, x = 15, y =25;
if ( x >= y)
{
ans = x + 10;
x -= y;
}
```

```
else
{
ans = y + 10;
y += x;
}
```

○ ans = 25, x = 15, y = 40

◉ ans = 35, x = 15, y = 40

○ ans = 25, x = -10, y = 25

○ ans = 0, x = 15, y = 25

Question 19   100 pts

What will be the values of `discountRate` after the following statements are executed?

```
double discountRate = 0.0;
int purchase = 100;
if (purchase > 1000)
      discountRate = .05;
else if (purchase > 750)
      discountRate = .03;
else if (purchase > 500)
      discountRate = .01;
```

○ 0.05

○ 0.01

○ 0.03

◉ 0.0

Question 20

100 pts

What will be the values of `discountRate` after the following statements are executed?

```
double discountRate = 0.0;
int purchase = 1250;
if (purchase > 1000)
        discountRate = .05;
if (purchase > 750)
        discountRate = .03;
if (purchase > 500)
        discountRate = .01;
else
        discountRate = 0;
```

○ 0.0

○ 0.03

◉ 0.05

○ 0.01

Question 21

100 pts

What will be the values of `discountRate` after the following statements are executed?

```
double discountRate = 0.0;
int purchase = 1250;
char cust = 'N';
if (purchase > 1000)
     if (cust == 'Y')
     discountRate = .05;
     else
     discountRate = .04;
else if (purchase > 750)
     if (cust == 'Y')
     discountRate = .04;
     else
     discountRate = .03;
else
     discountRate = 0;
```

- ○ 0.05
- ◉ 0.04
- ○ 0.03
- ○ 0.0

Question 22   100 pts

Write a `boolean` expression to test for: `int x` being a value less than or equal to 500 or greater than 650, and `int y` not equal to 1000.

○ `((x >= 500 && x <650) && (y != 1000))`

○ `((x <= 500 OR x > 650) AND !(y.equal(1000)))`

○ `((x >= 500 || x < 650) || (y != 1000))`

◉ `((x <= 500 || x > 650) && !(y == 1000))`

Question 23   100 pts

What will be printed when the following code is executed?

```
int y = 10;
if ( y == 10)
{
    int x = 30;
    x += y;
}
System.out.print("x = ");
System.out.print(x);
```

◉ `x` is unknown when the last statement is executed

○ x = 30

○ x = 20

○ x = 40

Question 24

100 pts

The `switch` statement is a ____.

◉ multiple alternative decision structure

○ nested decision structure

○ sequence structure

○ test expression

Question 25

100 pts

What would be the value of `discountRate` after the following statements are executed?

```
double discountRate;
char custType = 'B';
switch (custType)
{
```

```
      case 'A':
        discountRate = 0.08;
        break;
      case 'B':
        discountRate = 0.06;
      case 'C':
        discountRate = 0.04;
      default:
        discountRate = 0.0;
  }
```

- ⦿ 0.0

- ○ 0.04

- ○ 0.08

- ○ 0.06

No new data to save. Last checked at 8:10pm   Submit Quiz