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Status	Finished
Started	Sunday, 29 September 2024, 12:32 PM
Completed	Sunday, 29 September 2024, 1:11 PM
Duration	38 mins 57 secs

Question 1

Complete

Marked out of 1.00

⚐ Flag question

What will be the output of the program?

```
boolean bool = true;
if(bool = false) /* Line 2 */
{
    System.out.println("a");
}
else if(bool) /* Line 6 */
{
    System.out.println("b");
}
else if(!bool) /* Line 10 */
{
    System.out.println("c"); /* Line 12 */
}
else
{
    System.out.println("d");
}
```

- ○ a. d
- ○ b. a
- ◉ c. c
- ○ d. b
- ○ e.

Complete

Marked out of
1.00

⚐ Flag question

Examine the following code:

```
int count = -2;
while ( count < 3 )
{
  System.out.print( count + " " );
  count = count + 1;
}
System.out.println( );
```

What does this code print on the monitor?

- ○ a.   -2 -1 1 2 3
- ◉ b.   -2 -1 0 1 2
- ○ c.   -2 -1 1 2 3 4
- ○ d.   -25

Question **3**

Complete

Marked out of
1.00

⚐ Flag question

Which of the following is most likely to use a sentinel loop?

- ○ a.   Checking if a particular integer is even or odd.
- ○ b.   Trying various letter substitution combinations until a message in a secret code can be read.
- ◉ c.   Asking the user at the end of a game if the user wants to play again.
- ○ d.   Checking that each price in a list of items offered for sale is less than $125.

Question **4**

Complete

Marked out of
1.00

⚐ Flag question

Which option completes the code to print the message as long as number is greater than 20?

```
int number = 100;
MISSING CODE {
  System.out.println("The number = " + number);
  number --;
}
```

- ○ a.
- ○ b.   do while (number > 20)
- ◉ c.   while (number > 20)
- ○ d.   if (number > 20)

What is the output of the below program?

```java
public class IfExample {
 public static void main(String[] args) {
  int var1;
  if (var1) {
   System.out.println("Inside If Condition");
  }
 }
}
```

- ○ a. Successfully compiled
- ◉ b. Compilation error
- ○ c. Runtime error
- ○ d. Inside If Condition

Given:

```java
  switch( i)
  {
    default :
       System.out.println("Hello");
  }
```

What is the acceptable type for the variable i?

- ○ a. float
- ○ b. Object
- ◉ c. byte
- ○ d. double

Choose the correct expressions which satisfy the given table for both X and Y

X Y Result

28 -44 true

50 17 false

Choose the correct expressions which satisfy the given table for both X and Y

X Y Result

28 -44 true

58 17 false

47 59 true

30 72 true

63 -12 false

37 33 false

- a. (x < 35) || (y > 35)
- b.
- c. (x == 0) && (y > 35)
- d. (x < 25) || (y > 35)
- ● e. (x < 75) || (y > -100)

Another word for "looping" is:

- ● a. iteration
- b. tintinabulation
- c. reiteration
- d. recapitulation

Given the following code:

```
public class TestForSwitch {
 public static void main(String[] args) {
  for (int i = 0; i < 3; i++) {
   switch (i) {
   default:
    System.out.print("D");
   case 0:
```

Given the following code:

```
public class TestForSwitch {
 public static void main(String[] args) {
  for (int i = 0; i < 3; i++) {
  switch (i) {
  default:
   System.out.print("D");
  case 0:
   System.out.print("0");
  case 1:
   System.out.print("1");
  }
  }
 }
}
```

What is the result of attempting to compile and run the program?

- a. Prints: 01D01
- b. Prints: 01D
- c. Prints 011D01
- ⦿ d. Prints: DDD
- e.

Which of the following is a legal loop definition?

- a. do { /* whatever */ } while (int a = 0);
- ⦿ b. for (int a=0; a<100; a++) { /* whatever */ }
- c.
- d. do { /* whatever */ } while (int a == 0);
- e. while (int a == 0) { /* whatever */ }

```
public class If1
{
    static boolean b;
    public static void main(String [] args)
    {
        short hand = 42;
        if ( hand < 50 && !b ) /* Line 7 */
            hand++;
        if ( hand > 50 );    /* Line 9 */
        else if ( hand > 40 )
        {
            hand += 7;
            hand++;
        }
        else
            --hand;
        System.out.println(hand);
    }
}
```

Choose the correct answer(s) from the following:

- ○ a.   42
- ○ b.   41
- ○ c.   50
- ● d.   51

Which of the following is legal?

- ○ a.   for (int i=0, float j=1.0; ; i++, j++) { }
- ○ b.   for (int i=0, j=1; i<10; i++; j++) { }
- ● c.   for (int i=0, j=1; i<10; i++, j++) { }
- ○ d.   for (int i=0, j=1; i<10 j<10; i++, j++) { }

Given the following code:

```
public class TestSwitch {
 public static void main(String args[]) {
  byte b = -1;
  switch (b) {
  case -1:
   System.out.print("-1");
   break;
  case 127:
   System.out.print("127");
   break;
  case 126:
   System.out.print("126");
   break;
  default:
   System.out.print("Default ");
  }
 }
}
```

What is the result of attempting to compile and run the program?

- ○ a.   Prints: Default
- ◉ b.   Prints: -1
- ○ c.   Compile-time error
- ○ d.
- ○ e.   Prints: 128

```
public void foo( boolean a, boolean b)
{
  if( a )
  {
    System.out.println("A"); /* Line 5 */
  }
  else if(a && b) /* Line 7 */
```

```
else if(a && b) /* Line 7 */

{

  System.out.println( "A && B");

}

else /* Line 11 */

{

  if ( !b )

  {

    System.out.println( "notB") ;

  }

  else

  {

    System.out.println( "ELSE" ) ;

  }

}

}
```

Choose the correct answer(s) from the following:

- a. If a is false and b is true then the output is "ELSE"
- ● b. If a is false and b is false then the output is "ELSE"
- c. If a is true and b is true then the output is "A && B"
- d. If a is true and b is false then the output is "notB"

Which flow control mechanism determines when a block of code should run more than once?

- ● a. iteration
- b.
- c. sequence
- d. selection
- e. exceptions

Given the following code:

public class TestIf {

public static void main(String[] args) {

Given the following code:

```
public class TestIf {
  public static void main(String[] args) {
    boolean bFlag = true;
    if (bFlag = false) {
      System.out.print("X");
    } else if (bFlag) {
      System.out.print("Y");
    } else {
      System.out.print("Z");
    }
  }
}
```

What is the result of attempting to compile and run the program?

- a. Prints: X
- b. Compile-time error
- c. Prints: Y
- ● d. Prints: Z

Choose the correct expressions which satisfy the given table for X

X Result

42 true

79 false

27 false

30 false

- a. x < 79
- b. x == 0
- c. x < 42
- d.
- ● e. x == 42

Given the following,

11. int I = 0;

12. outer:

13.   while (true) {

14.   I++;

15.   inner:

16.   for (int j = 0; j < 10; j++) {

17. I += j;

18. if (j == 3)

19. continue inner;

20. break outer;

21. }

22. continue outer;

23. }

24.   System.out.println(I);

25.

26.

What is the result?

○ a.   2

◉ b.

○ c.   3

○ d.   4

○ e.   1

What makes a loop a counting loop?

○ a.   A loop control variable is tested in the while statement, and is changed each time the loop body executes

○ b.   A counter is counted downwards by one until it hits zero.

○ c.   No loop control variables are used.

◉ d.   A counter is counted upwards by one until it hits a particular limit.

Given the following:

```
public class DoTest {
 public static void main(String[] args) {
  boolean flag;
  int index = 3;
  do {
   flag = false;
   System.out.print(index);
   index--;
   flag = (index > 0);
   continue;
  } while ((flag) ? true : false);
 }
}
```

What will be the output of above code?

- a. 3210
- b. Will go into an infinite loop
- c. Compilation error
- ⦿ d. 321

Choose the correct expressions which satisfy the given table for X

X Result

40 true

95 true

63 false

9 true

- a. x != 9
- b. x == 40
- c. x < 63
- ⦿ d. x != 63

Given the following,

```
1. public class While {
2.    public void loop() {
3.      int x= 0;
4.      while ( 1 ) {
5.        System.out.print("x plus one is " + (x + 1));
6.      }
7.    }
8. }
```

Which statement is true?

- ⦿ a.   There are syntax errors on lines 1, 4, and 5.
- ○ b.   There are syntax errors on lines 4 and 5.
- ○ c.   There is a syntax error on line 1.
- ○ d.   There are syntax errors on lines 1 and 4.
- ○ e.   There is a syntax error on line 4.

```
public void test(int x)
{
  int odd = 1;
  if(odd) /* Line 4 */
  {
    System.out.println("odd");
  }
  else
  {
    System.out.println("even");
  }
}
```
Which statement is true?

- a. "odd" will be output for odd values of x, and "even" for even values.
- ● b. Compilation fails.
- c. "even" will always be output.
- d. "odd" will always be output.
- e.

Given the following,

1. int j = 7;

2. label:

3.   if (j > 5) {

4.   System.out.print(" j is " + j);

5.   j--;

6.   continue label;

7.   }

What is the result?

- a.
- b. Produces no output
- ● c. Compilation fails
- d. j is 7 j is 6
- e. j is 7

Which statement is true about the following code fragment?

1. int j = 2;

2. switch (j) {

3.   case 2:

4.   System.out.println("value is two");

5.   case 2 + 1:

6.   System.out.println("value is three");

7.   break;

8.   default:

9.   System.out.println("value is " + j);

```
9.       System.out.println("value is " + j);
10.      break;
11. }
```

- a. The output would be

  value is two

  value is three

  value is 2

- b. The code is illegal because of the expression at line 5

- ● c. The output would be

  value is two

  value is three

- d. The output would be

  value is two

Given the following,

```
1. int i = 0;
2. label:
3.    if (i < 2) {
4.       System.out.print(" i is " + i);
5.       i++;
6.       continue label;
7.    }
```

What is the result?

- a.   i is 0
- b.   i is 0 i is 1
- ● c.   Compilation fails
- d.   Produces no output

What is output of the following program?

```
class A {
  public static void main(String[] args) {
    float f = new Float(2.5);
```

```
float f = new Float(2.5);
float f1 = 2.5f;
if (f == f1)
  System.out.println("cat");
else
  System.out.println("mouse");
}
}
```

- a. cat
- ● b. Compilation error
- c. Runtime error
- d. mouse
- e.

Question **28**

Complete

Marked out of
1.00

⚑ Flag question

What will be the output of the program?

```
int x = 3;
int y = 1;
if (x == y) /* Line 3 */
{
  System.out.println("x =" + x);
}
```

- a. x = 3
- b. The code runs with no output.
- c. x = 1
- ● d. Compilation fails.

Question **29**

Complete

Marked out of
1.00

Given the following code:

```
public class TestIf {
 public static void main(String[] args) {
  boolean bFlag = true;
```

```
boolean bFlag = true;
if (bFlag = false) {
System.out.print("X");
} else if (bFlag) {
System.out.print("Y");
} else {
System.out.print("Z");
}
}
}
```

What is the result of attempting to compile and run the program?

- ○ a.
- ● b. Prints: Z
- ○ c. Compile-time error
- ○ d. Prints: X
- ○ e. Prints: Y

Question **30**

Complete

Marked out of
1.00

⚐ Flag question

For the code snippet:

```
int m = 0;
while( ++m < 2 )
    System.out.println( m );
```

What is printed to standard output?

- ● a. 1
- ○ b. Nothing is printed
- ○ c. 0
- ○ d.
- ○ e. 2

Complete

Marked out of
1.00

⚑ Flag question

What will be the output of the program?

int i = l, j = -1;

switch (i)

{

   case 0, 1: j = 1; /* Line 4 */

   case 2: j = 2;

   default: j = 0;

}

System.out.println("j = " + j);

- ◉ a. j = 0
- ○ b.
- ○ c. j = -1
- ○ d. j = 1
- ○ e. Compilation fails.

Complete

Marked out of
1.00

⚑ Flag question

Given the following:

public class TestDoWhile {

 public static void main(String... args) {

 int count = 20;

 do {

  System.out.println(count);

 } while (count++ < 21);

 }

}

What is the output?

- ○ a. Nothing is printed
- ○ b. 20
- ○ c. 21
- ◉ d. 20

     21

Question 33

Complete

Marked out of
1.00

Flag question

Which of the following is most likely to use a counting loop?

- a. Asking the user at the end of a game if the user wants to play again.
- b. Checking if a particular integer is even or odd.
- c. Trying various letter substitution combinations until a message in a secret code can be read.
- ● d. Checking that each price in a list of items offered for sale is less than $125.

Question 34

Complete

Marked out of
1.00

Flag question

Choose the correct expressions which satisfy the given table for X

X Result

-68 true

-31 false

-70 true

-60 false

- a. x < -60
- b. x > -50
- ● c. x != -31
- d. x > 0

Question 35

Complete

Marked out of
1.00

Flag question

Examine the following code fragment:

```
int j = 1;
while ( j < 10 )
{
    System.out.println( j + " " );
    j = j + j%3;
}
```

What is output to the monitor?

- a. 1 2 5 8
- b. 1 4 7 10
- c. 1 4 7

Choose the correct expressions which satisfy the given table for X

X Result

-68 true

-31 false

-70 true

-60 false

- ○ a. x < -60
- ○ b. x > -50
- ⦿ c. x != -31
- ○ d. x > 0

Examine the following code fragment:

```
int j = 1;
while ( j < 10  )
{
   System.out.println( j + " " );
   j = j + j%3;
}
```

What is output to the monitor?

- ○ a. 1 2 5 8
- ○ b. 1 4 7 10
- ○ c. 1 4 7
- ○ d.
- ⦿ e. 1 2 4 5 7 8

Finish review