11/11/2019 Quiz: CSA WS 08F - Practice 1

CSA WS 08F - Practice 1

Started: Nov 11 at 4:18pm

Quiz Instructions

- 2 attempts
- · Highest score
- Not comprehensive of the chapter

Question 1 100 pts How many times will the following loop run? int i = 0; while (i < 10)System.out.println(i); i++; 10 0 8 **9**

Question 2 100 pts

What is the output of the code fragment given below?

```
int i = 0;
while (i != 9)
{
    System.out.print(i + " ");
    i = i + 2;
}
```

- 10 12 14 16 18 (infinite loop)
- 0 2 4 6 8 10 12 14 (infinite loop)
- No output
- 02468

Question 3 100 pts

How many times does the code snippet given below display "Hello"?

```
int i = 3;
while (i != 10)
{
    System.out.println("Hello");
    i++;
}
```

- infinite times
- 9 times
- 7 times
- 8 times

Question 4 100 pts

What is the output of the code fragment given below?

```
int i = 0;
int j = 0;
while (i < 25)
{
    i = i + 2;
    j++;
}
System.out.println("j = " + j);</pre>
```

-) j = 25
- \bigcirc j = 24
- j = 13
- \bigcirc j = 26
- \bigcirc j = 12

Question 5 100 pts

```
What is the output of the code fragment given below?
```

```
int i = 1;
while (i < 10)
{
    System.out.print(i + " ");
    i = i + 2;
    if (i == 5)
    {
        i = 9;
    }
}</pre>
```

- 0 1 3 5 7 9
- 0 1 3 5
- 0 1359
- 1 3 9

Question 6 100 pts

The program below checks whether a given number is a prime number. What will be the result of executing it?

```
public static void main(String[] args)
   int j = 2;
   int result = 0;
   int number = 0;
   Scanner reader = new Scanner(System.in);
   System.out.println("Please enter a number: ");
   number = reader.nextInt();
   while (j <= number / 2)</pre>
      if (number % j == 0)
         result = 1;
      j++;
   if (result == 1)
      System.out.println(number + " is not prime.");
   else
      System.out.println(number + " is prime. ");
```

The program will display an incorrect result if the number is 1.

- The program will not compile.
- The program will display the desired result.
- The program will loop forever.

Question 7 100 pts

What are the values of i and j after the following code fragment runs?

```
int i = 60;
int j = 50;
int count = 0;
while (count < 5)
{
    i = i + i;
    i = i + 1;
    j = j - 1;
    j = j - j;
    count++;
}
System.out.println("i=" + i + ", j=" + j);</pre>
```

 \bigcirc i = 1951, j = 45

- i = 1951, j = 0
- \bigcirc i = 65, j = 1

 \bigcirc i = 65, j = 45

Which error type does the "off-by-one" error belong to?

Run-time error
Syntax error
Compile-time error
Infinite loop

Question 9 100 pts

How many times does the following code fragment display "Hi"?

```
int i = 8;
while (i >= 0)
{
    System.out.println("Hi");
    i--;
}
```

7 times

- 8 times
- 9 times
- 10 times

Question 10 100 pts

What is the output of the following code fragment?

```
int i = 1;
int sum = 0;
while (i <= 11)
{
    sum = sum + i;
    i++;
}
System.out.println("The value of sum is " + sum);</pre>
```

- The value of sum is 56
- The value of sum is 65
- The value of sum is 55
- The value of sum is 66

Question 11 100 pts

What is the output of the following code fragment?

```
int i = 1;
while (i <= 10)
{
    System.out.println("Inside the while loop");
    i = i + 10;
}</pre>
```

- "Inside the while loop" will be displayed 10 times.
- "Inside the while loop" will be displayed only once.
- No output after successful compilation.
- No output because of compilation error.

Question 12 100 pts

How many times does the code snippet below display "Hi"?

```
int i = 0;
while (i != 15)
{
    System.out.println("Hi");
    i++;
}
```

14 times			
15 times			
16 times			
infinite times			

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

int x = 60;

while (x < 120) {
 x += 10;
}

This has a syntax error

110

This is an infinite loop

Question 14 100 pts

130

120

Given the code segment:

```
int x = 40, y = 20;
while (y < 160) {
x += y;
}
```

- 140
- This has a syntax error
- This is an infinite loop
- 160
- 180

Question 15 100 pts

Given the following code:

```
Scanner keyboard = new Scanner(System.in);
System.out.print("Enter a number: ");
int number = keyboard.nextInt();
while (number < 30 && number > 150) {
    System.out.print("Enter another number: ");
    number = keyboard.nextInt();
}
```

What are the possible values of number when the loop body is no longer executed?

- Numbers in the range 30 150, inclusively
- Numbers less than 30 or greater than 150
- Numbers in the range 30 149, inclusively
- No number will make the condition true, so no iteration
- Number with value 0

Question 16 100 pts

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

```
int x = 8;
do {
   x *= 2;
} while (x > 4);
```

- This is an infinite loop
- 0 1024
- 512
- 0 2048
- This has a syntax error

Question 17 100 pts How many time is the following loop executed? int x = 30;do { x += 10;} while (x > 90); This is an infinite loop 5 4 6 1

```
Question 18

How many time is the following loop executed?
for (int i = 10; i <= 16; i++) {
    System.out.println("Have a nice day!");</pre>
```

This is an infinite loop

This has a syntax error	
○ 8	
7	
6	

Question 19 100 pts

What will be the value of ${\bf x}$ after the following code is executed?

int
$$x = 10$$
;
for (int $y = 5$; $y < 20$; $y +=5$)
 $x += y$;

- 40
- 10
- This is infinite loop
- 30
- 25

Question 20

100 pts

Which loop(s) (among the 3 in Java) is/are pre-test loop(s)?

- for, while
- for, do-while
- while, do-while
- O for, while, do-while
- do-while

Question 21 100 pts

How many times is the following loop executed?

```
int x = 50;
while (x < 100);
{
x += 10;
```

- This is an infinite loop
- 4
- This has a syntax error
- 3

5

```
Question 22
                                                                                                   100 pts
Given the following code:
Scanner keyboard = new Scanner(System.in);
System.out.print("Enter a number: ");
int number = keyboard.nextInt();
while (number < 60 \mid \mid number > 160) {
   System.out.print("Enter another number: ");
   number = keyboard.nextInt();
What are the possible values of number when the loop body is no longer executed?
Numbers in the range 60 - 160, inclusively
 Number with value 0
Numbers less than 60 or greater than 160

    No number will make the condition true, so no iteration

Numbers in the range 60 - 159, inclusively
```

Question 23 100 pts

Which of the following are pre-test loops?

while, for

while, do-while

for, do-while

while, for, do-while

Question 24		
The loop is ideal in situations where you always want the loop to iterate at least once.		
● do-while		
<pre>for</pre>		
posttest		
<pre>while</pre>		

Question 25

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

int x = 10;

```
while (x < 100)
{
    x += 100;
}

    10
    90

    110
    100</pre>
```

Quiz saved at 3:57pm

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