## CSE110 Review Questions Prepared by Ryan Dougherty

## Loops - Control Structures

Question 1 What are the 3 kinds of loops in Java? Answer: for, while, do-while

**Question 2** Write a loop that reads in int values until the user enters 0 and prints out how many values entered are greater than 10.

## Answer:

**Question 3** Write a loop that will print out every other letter in a String str. For example, if the String was "Hello There", then "HloTee" will be printed.

## Answer:

```
for (int j = 0; j < str.length(); j += 2) {
          System.out.print(str.charAt(j));
}</pre>
```

Question 4 What is the output of the following loop? How many times does the loop execute?

Answer: Hello (980 times)

Question 5 What is the output of the following loop? How many times does the loop execute?

Answer: Hello (5 times)

```
Question 6 What is the output of the following loop? How many times does the loop execute?
int n = 5;
for (int j = 1; j \le n; j += 3) {
         System.out.print("Hello ");
         int k = j;
         while (k < n) {
                  System.out.println("Good Morning");
                  k++;
         }
         j--;
}
Answer:
Hello Good Morning
Good Morning
Good Morning
Good Morning
Hello Good Morning
Good Morning
Hello
Question 7 What is the output of the following loop? How many times does the loop execute?
int j = 1;
while (j <= 11) \{
         System.out.println("Hello");
         j = j + 3;
}
Answer: Hello (4 times)
Question 8 What is the output of the following code?
String name = "Richard M. Nixon";
boolean startWord = true;
for (int i = 0; i < name.length(); i++) {</pre>
         if (startWord)
                  System.out.println(name.charAt(i));
         if (name.charAt(i) == ' ')
                  startWord = true;
         else
                  startWord = false;
}
Answer:
\mathbf{R}
M
Ν
Question 9 What is the output of the following code?
int n = 1, i = 1;
while (i < 7) {
         n = n * i;
         i += 2;
System.out.print(n);
```

Answer: 15