## CSE110 Review Questions

## Prepared by Ryan Dougherty

## **Decision - Control Structures**

```
Question 1 What is the output of the following code?
int depth = 8;
if (depth >= 8) {
         System.out.print("Danger: ");
         System.out.print("deep water. ");
System.out.println("No swimming allowed.");
Question 2 What is the output of the following code?
int depth = 12;
int temp = 42;
System.out.print("The water is: ");
if (depth >= 8)
         System.out.print("deep ");
if (temp <= 50 && depth <= 12)</pre>
         System.out.print("cold ");
System.out.println(" wet.");
Question 3 Consider the following code:
String str1 = "Java is fun";
String str2 = "Java is fun";
if ( /* */ )
         System.out.println("String1 and String2 are the same");
else
         System.out.println("String1 and String2 are different");
Fill in the missing condition to check if str1 and str2 are the same.
Question 4 If k holds a value of the type int, then the value of the expression:
k <= 10 || k > 10
a) must be true
b) must be false
c) could be either true or false
d) is a value of type int
```

Question 5 Write a program that asks for 3 integers and prints the median value of the three integers.

```
Question 6 Evaluate the following expressions, assuming that x = -2 and y = 3.
a) x <= y
b) (x < 0) \mid | (y < 0)
c) (x \le y) \&\& (x < 0)
d) ((x + y) > 0) \&\& !(y > 0)
Question 7 Write the output of the following code:
int grade = 45;
if (grade >= 70)
         System.out.println("passing");
if (grade < 70)
         System.out.println("dubious");
if (grade < 60)
         System.out.println("failing");
Question 8 Write the output of the following code:
String option = "A";
if (option.equals("A"))
         System.out.println("addRecord");
if (option.compareTo("A") == 0)
         System.out.println("deleteRecord");
Question 9 Write the output of the following code:
double x = -1.5;
if (x < -1.0)
         System.out.println("true");
else
         System.out.println("false");
         System.out.println("after if...else");
Question 10 Write the output of the following code:
int j = 8;
double x = -1.5;
if (x >= j)
         System.out.println("x is high");
else
         System.out.println("x is low");
Question 11 Write the output of the following code:
double x = -1.5;
if (x \le 0.0) {
         if (x < 0.0)
                  System.out.println("neg");
         else
                  System.out.println("zero");
}
else
         System.out.println("pos");
```

Question 12 Write code that ensures that an int variable called number is an odd integer.