Quiz 2 9/13/18 Name:_______________________________ ____/20

1. What gets printed by the following code fragment?

```java
int num1 = 5; int num2 = 16;
if (num1 + num2 < 9)
    { System.out.println ("green");
      System.out.println ("red");
    }
else
    System.out.println ("white");
if (num1 >= num2)
    System.out.println ("beige");
else
    if ((num1 + 10) >= num2)
        { System.out.println ("black");
          System.out.println ("blue");
        }
    else
        System.out.println ("yellow");
System.out.println("brown");
```

2. Complete the following algorithm to print the **minimum** of three numbers a, b, c.

**Variables:** a, b, c, min

**Algorithm:**
- input a, b, c
1. What gets printed by the following code fragment?

```java
int num1 = 4; int num2 = 3;
if (num1 + num2 < 9)
{ System.out.println("red");
  System.out.println("orange");
}
else
  System.out.println("white");
if (num1 >= num2)
  System.out.println("beige");
else
  if ((num1 + 10) >= num2)
  { System.out.println("black");
    System.out.println("blue");
  }
  else
    System.out.println("yellow");
System.out.println("green");
```

2. The following code is supposed to compute and print the maximum of three variables a,b,c, but it does not work. Provide an example of values of a, b, c for which it gives the wrong answer and show how to correct it by making a couple of small changes (i.e., do NOT rewrite all of it).

```java
if (a > b)
  if (b > c)
    max = a;
  else
    max = c;
else
  if (b > a)
    max = b;
  else
    max = c;
System.out.println("max = " + max);
```