1. What gets printed by the following code fragment?

```java
int num1 = 5; int num2 = 4;
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.print("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) // should be: if (a > c)
        max = a;
    else
        max = c;
} else {
    if (b > a) // should be: if (b > c)
        max = b;
    else
        max = c;
System.out.println("max = " + max);
```

It does not work for values a > c > b
It also does not work for c > b > a
1. What gets printed by the following code fragment?

```java
int num1 = 5; int num2 = 16;

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.print ("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

• min = a

• if b<min
    min = b

• if c<min
    min = c
• print min

// NB: there are many possible correct answers
```