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");
```

Output

```
red
orange
beige
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("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.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