1. (10 points) We want the loops below to print out the numbers between 0 and 20 (inclusive) counting by 2s (ie 0, 2, 4, 6 ... 20)? Fill in the blanks in the following loops to achieve this goal.

(a) int i = 0;
    while (i < ______) {
        System.out.println(i);
        i += 2;
    }

(b) int i = 0;
    while (i <= ______) {
        System.out.println(i);
        i += 2;
    }

(c) int i = 0;
    while (i < 21) {
        if(____________________) {
            System.out.println(i);
        }
        i++;
    }

(d) for (int i = 0;____________________; i+=2) {
    System.out.println(i);
}

(e) for (int i = 20; i >= 0; i=i-2) {
    System.out.println(____________________);
}
2. (2 points) In your own words explain the logical error of an infinite loop and give an example of code that demonstrates this error.

3. (3 points) Give the output (ie what will be displayed in the terminal) of the code below:

```java
int n = 0;
while (n < 6) {
    if (n < 2 || n > 3) {
        System.out.println("**  **");  //there are 2 spaces in the middle!
    } else {
        System.out.println("******");
    }
    n++;
}
```