

For and While Loops

1) Write a for loop that prints out “IT 168” seven times.

2) What does the following loop output? If the code does not work, what changes must be made for it to work?

```
for (int i = 20; i > 0; i -=2){  
    System.out.println(i % 3);  
}
```

3) Write a sentinel-controlled while loop that counts backwards from 15, printing all multiples of 3 until the count reaches 7.

4) What does the following while loop output? If the code does not work, what changes must be made for it to work?

```
boolean flag = false;
int a = 7;
while (!flag){
    if (a == 21 % 3){
        System.out.println("21 % 3 = " + 21 % 3);
    }
    else {
        a--;
    }
}
```