Loops Lab

1. What is the value of **`counter`** after the code segment has been executed?

```
int counter = 0;
for (int i = 0; i < 4; i++) {
   for (int j = 1; j < 6; j++) {
      counter++;
   }
}
```

2. What is the value of **counter2** after the code segment has been executed?

```
int counter2 = 0;
for (int i = 1; i < 9; i+=2) {
   for (int j = i; j > 0; j--) {
      counter2++;
   }
}
```

3. Consider the following code segment. What is the value of **x** after the code executes? What is the behavior of this code in general - if **num** holds a different integer(any nonnegative integer), what will **x** hold when the **while** loop ends?

```
int x=0;
int num=123456;
while(num > 0) {
  x += num%10;
  num = num/10;
}
```

4. Write a loop that computes the sum of all even integers between 1 and 100 inclusive, and store it in a variable called **`evenSum`**.