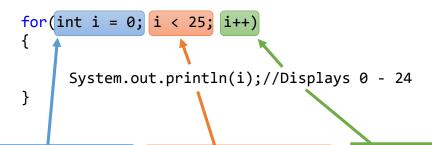
# For Loop

A for loop is a basic "Count-Controlled" Loop. This means that the number of times a for loop will execute is determined by a counter. A for loop contains the following components:



#### Counter

The counter is declared and initialized at the start of the for loop. We initialize the counter to our starting number.

### **Conditional Statement**

While the condition is true, the for loop will continue to iterate. In this case, as long as "i" is less than 25, the for loop will execute.

### **Update Counter**

The last part of the for loop determines how much to increment/ decrement the counter by. This is the only place the counter should be modified!

The for loop executes in the following steps:

- Initialize counter (int i = 0)
- 2. Check the conditional statement (i < 25)
  - a. True
    - i. Execute the code (System.out.println(i);)
    - ii. Update Counter (i++)
    - iii. Go back to Step 2
  - b. False
    - i. Exit for loop

# For Loop Exercises