

# Arrays & for Loops

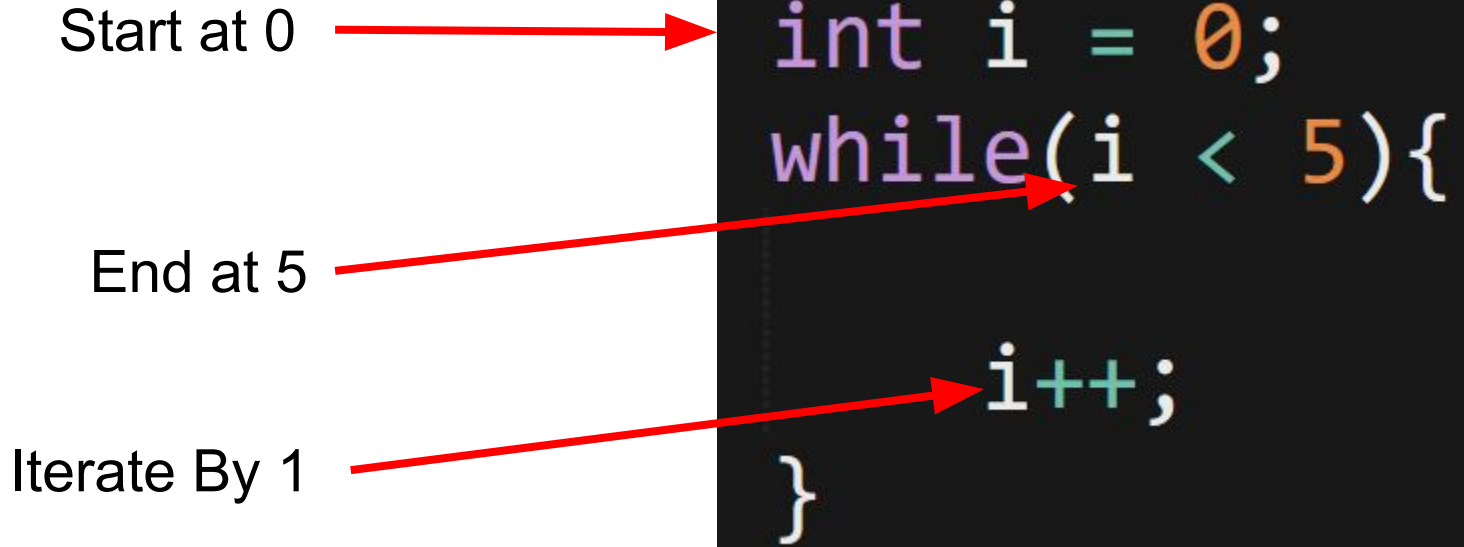
Java  
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# Counting While Loop Breakdown

Start at 0

End at 5

Iterate By 1



```
int i = 0;  
while(i < 5){  
    i++;  
}
```

The diagram illustrates the components of a counting while loop. Three red arrows originate from explanatory text on the left and point to specific parts of the code on the right. The first arrow points from 'Start at 0' to the initial value '0' in the assignment statement. The second arrow points from 'End at 5' to the comparison value '5' in the while loop condition. The third arrow points from 'Iterate By 1' to the increment operation 'i++' inside the loop body.

## Introducing the “for loop”

```
for(start; end; iterator){  
      
}
```

Essential, this shortens the counting while loop.

# For Loop Breakdown

```
for(int i = 0; i < 5; i++){  
}
```



Start at 0



End at 5



Iterate By 1

## Lab: Array & For Loops

- Make 1000 random integers in an array
- Use an independent **for** loop to print them all out
- Use **for loops** for this entire program