

### Dog Class

```
public class Dog {
    int myAge;
    public Dog(int inputAge) {
        this.myAge = inputAge;
    }
    public void getOlder() {
        this.myAge++;
    }
    public String toString() {
        return "This dog is " +
this.myAge + "years old";
    }
    public static void
main(String[] args) {
    Dog fido = new Dog(2);
    fido.getOlder();
    System.out.println(fido);
}
}
```

### Java For Loop

```
for (int count = 0; count < 100;
count = count + 1){
    //Do Something Here
}
```

### Big-O Order (slowest to fastest)

$n^n$

$n!$

$2^n$

$n^3$

$n^2$

$n \log(n)$

$n^n$

$\sqrt{n}$

$\log(n)$

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### Loop Counting

$i=0$   $N+1$

$i=1$   $N+1$

$i=2$   $N+1$

...

$i=N-1$   $N+1$

$i=N$   $N+1$

Total:  $N^2 + N$

Big-O  $O(N^2)$

```
for (int i=0; i<= N; i++){
for (int z=0; z <= N; z++){
//constant time operation
}
}
```



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