

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.pri
ntln(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}

$\log(n)$

1

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
}
}
```

C

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