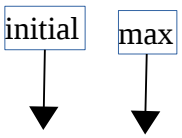
O(1)		Constant
O(log n)		Logarithmic
O(n)		Linear
O(n log n)		n log n
$O(n^c)$	$O(n^2), O(n^3), O(n^{16}), etc....$	Polynomial
$O(c^n)$	$O(1.6^n), O(2^n), O(3^n), etc....$	Exponential
O(n!)		Factorial
$O(n^n)$		n power n

for/while/do-while are examples where there are repetition/frequency.

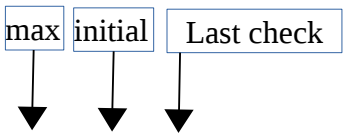
for/while, <, ++ loops

Freq = max – initial




```
for (int i = 1 ; i < n ; i++)
    s1;
```

1 is the initial and n is the max

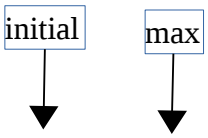


Freq = n – 1 + 1

---

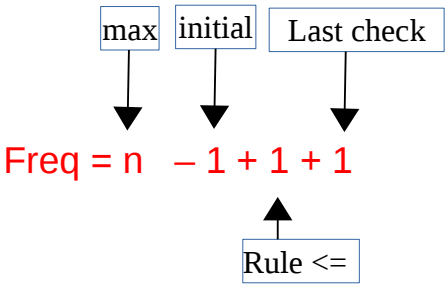
for/while, <=, ++ loops

Freq = max – initial + 1




```
for (int i = 1 ; i <= n ; i++)
    s1;
```

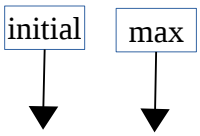
1 is the initial and n is the max



---

for/while, >, -- loops

Freq = initial – max



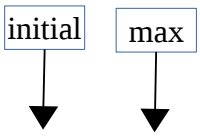

```
for (int i = n ; i > 1 ; I--)
        s1;
```

n is the initial and 1 is the max

---

for/while, >=, -- loops

Freq = initial – max + 1 + 1




```
for (int i = n ; i > 1 ; I--)
        s1;
```

n is the initial and 1 is the max