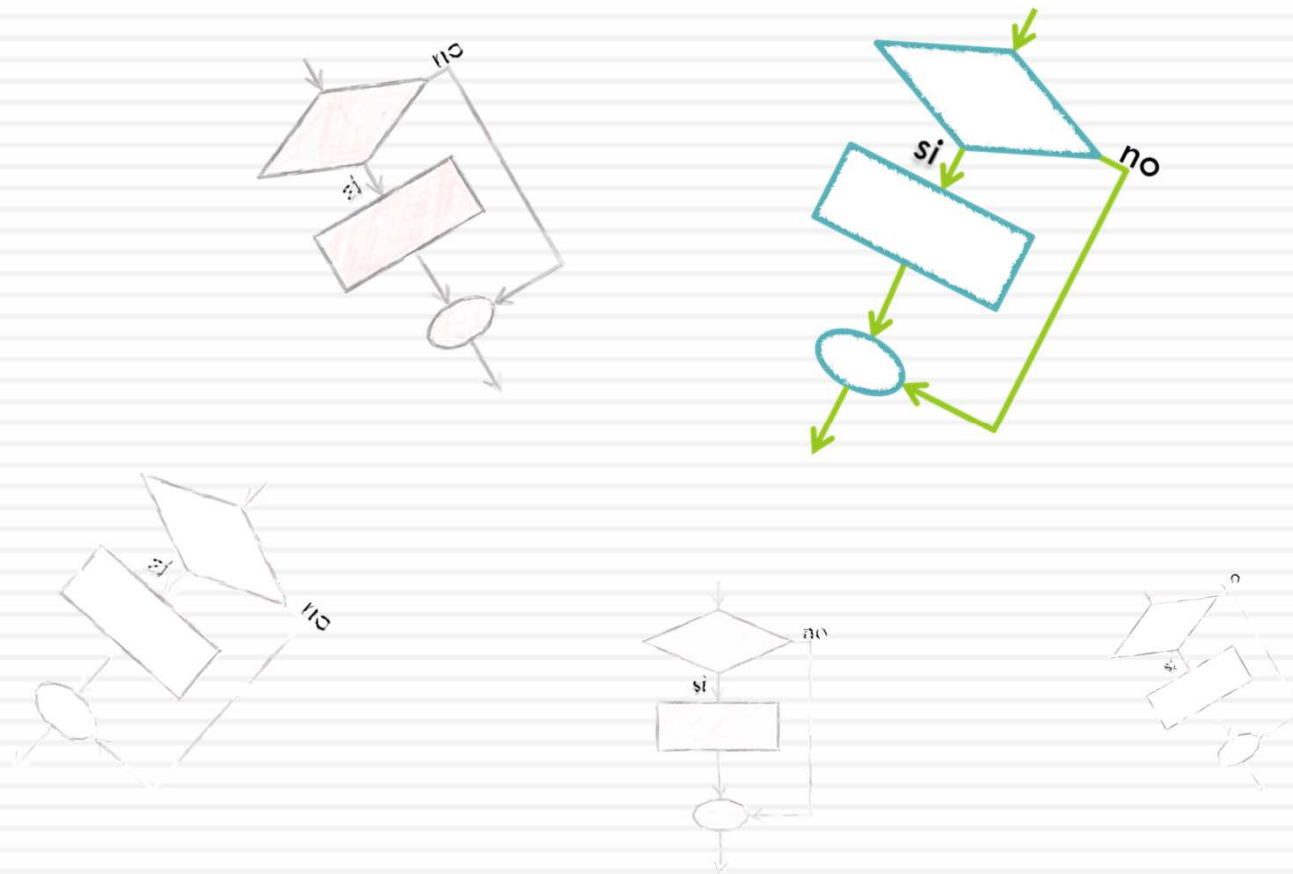


“FOR”

Java Básico



2

Estructura repetitiva: for

For

3

- Funciona similar al while.
- Es muy útil para recorrer arreglos.

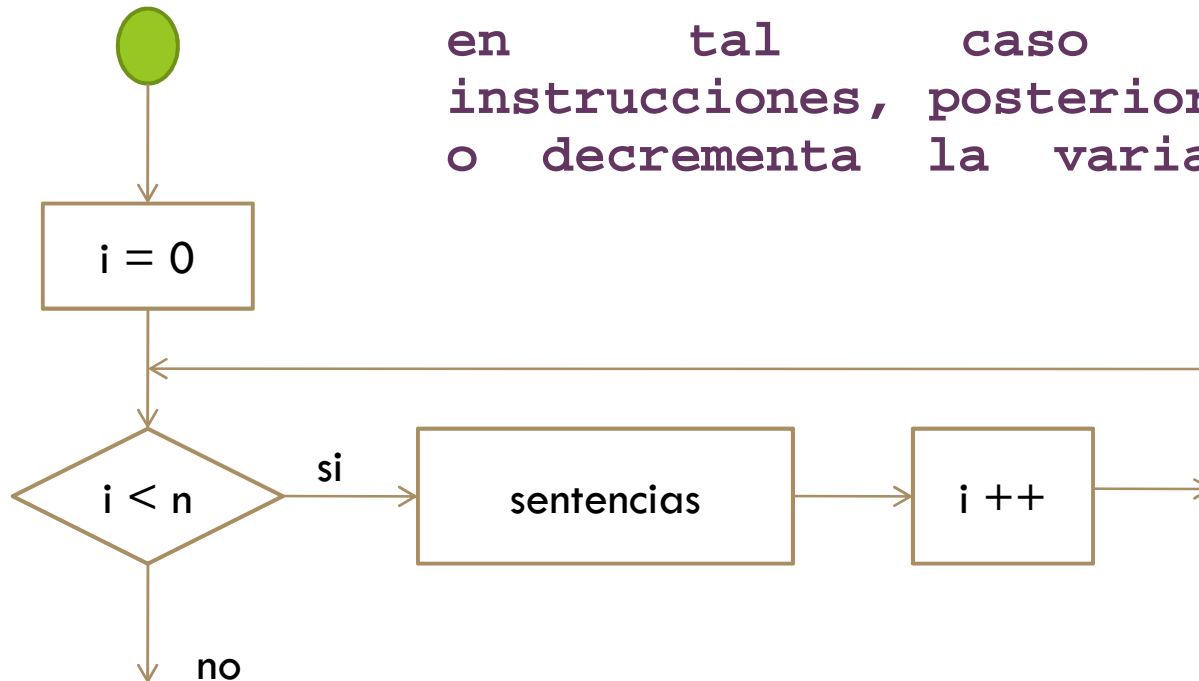
- Sintaxis:

```
for (inicialización ; condición ; incremento){  
    // Bloque de código que se repite.  
}
```

For

4

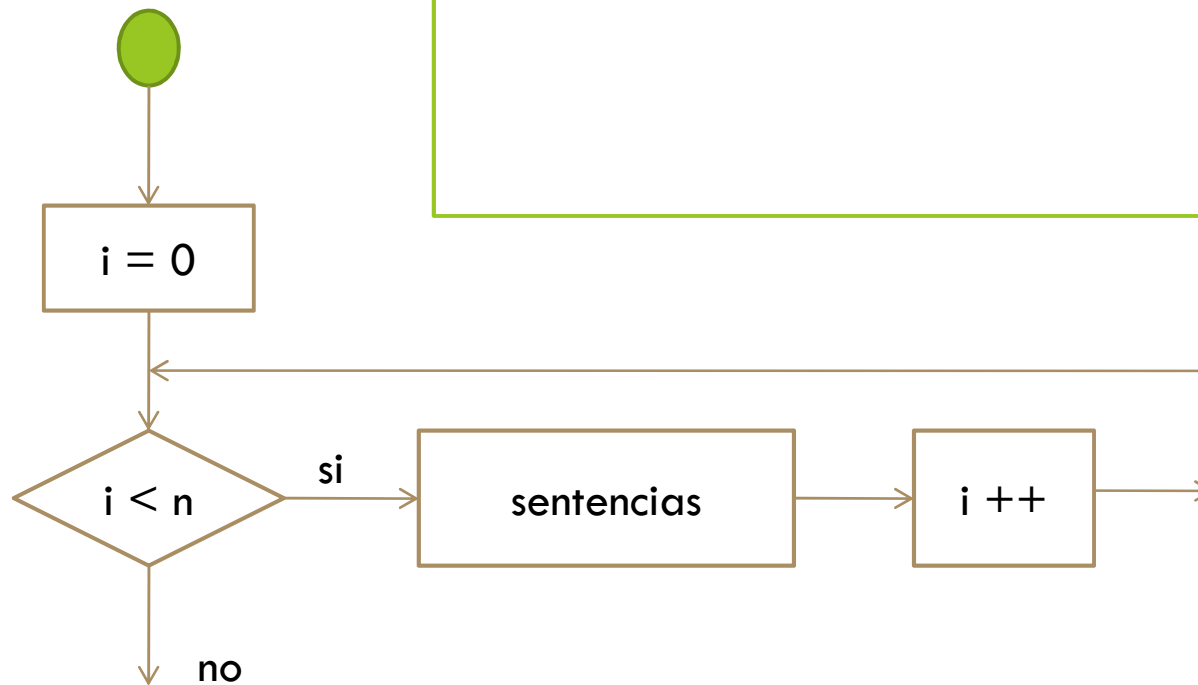
Inicializa el valor del contador, verifica si la condición se cumple y en tal caso ejecuta las instrucciones, posteriormente incrementa o decrementa la variable contador.



For

5

```
for (int i = 0; i < 10 ; i++ ){  
    System.out.println( "valor de i = " + i);  
}
```



Ciclo while

6

```
public static void main (String [] args){
```

```
    int [] vector = new int [10];
```

```
    int i = 0;
```

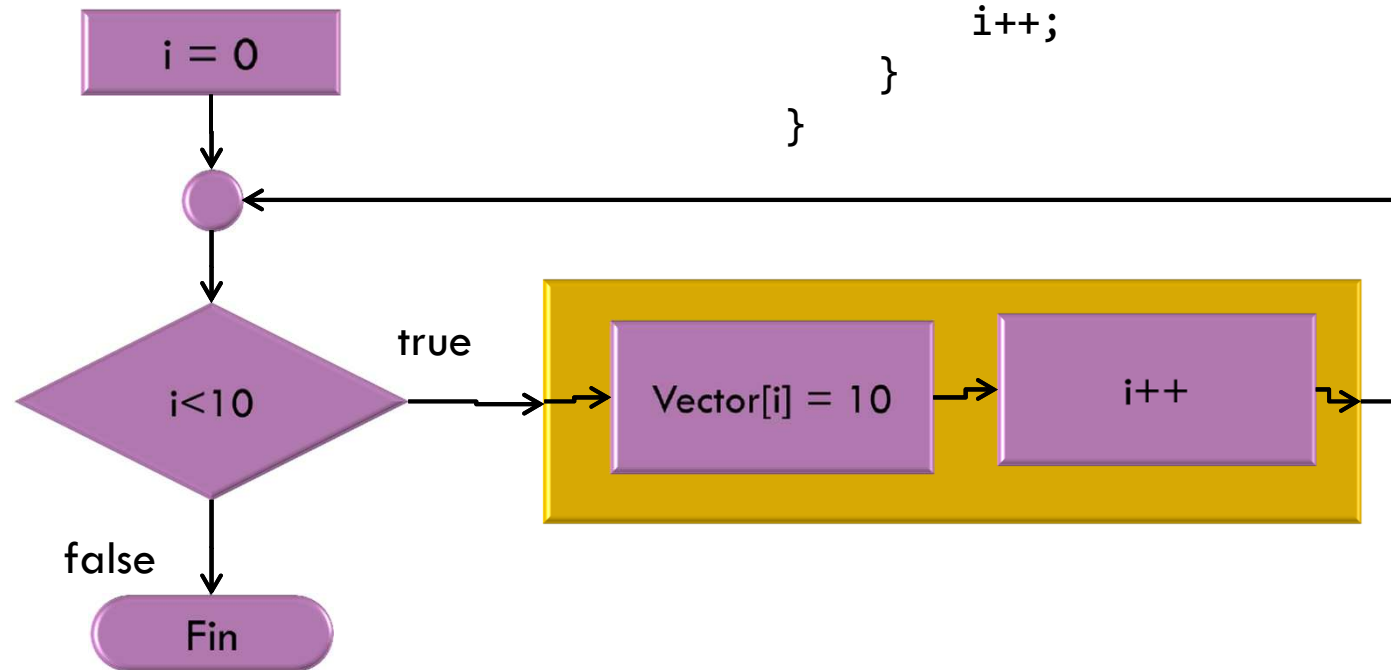
```
    while (i<10){
```

```
        vector[i] = 10;
```

```
        i++;
```

```
    }
```

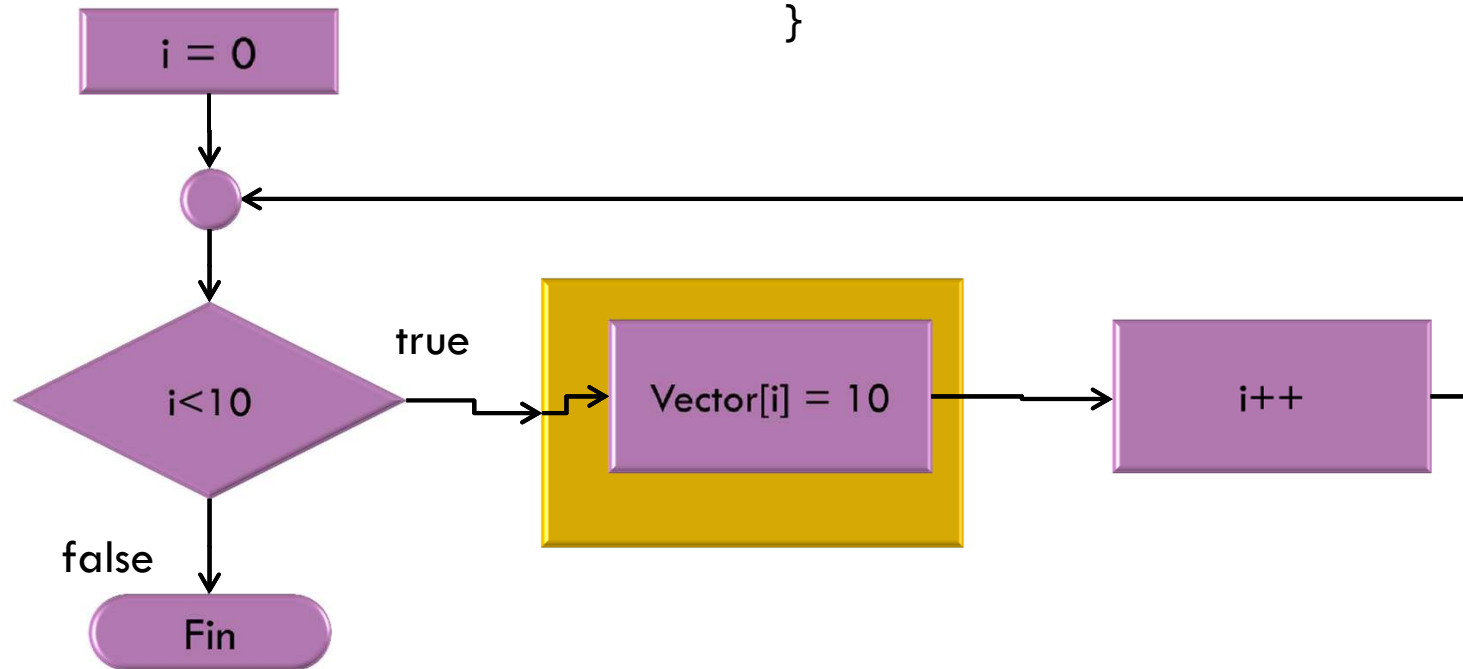
```
}
```



Ciclo for

7

```
public static void main (String [] args){  
  
    int [] vector = new int [10];  
  
    for (int i = 0; i<10; i++){  
        vector[i] = 10;  
    }  
}
```



Ciclo for

8

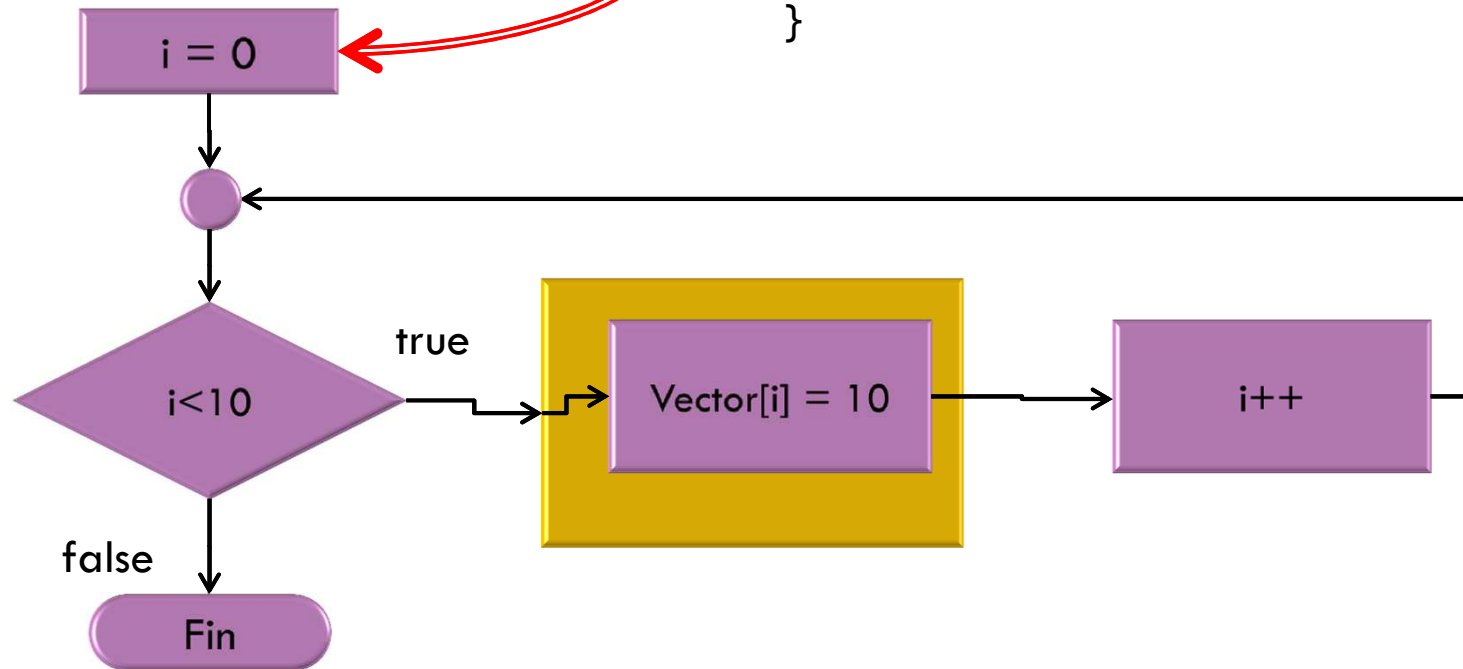
```
public static void main (String [] args){
```

```
    int [] vector = new int [10];
```

```
    for (int i = 0; i<10; i++){  
        vector[i] = 10;
```

```
    }
```

```
}
```



Ciclo for

9

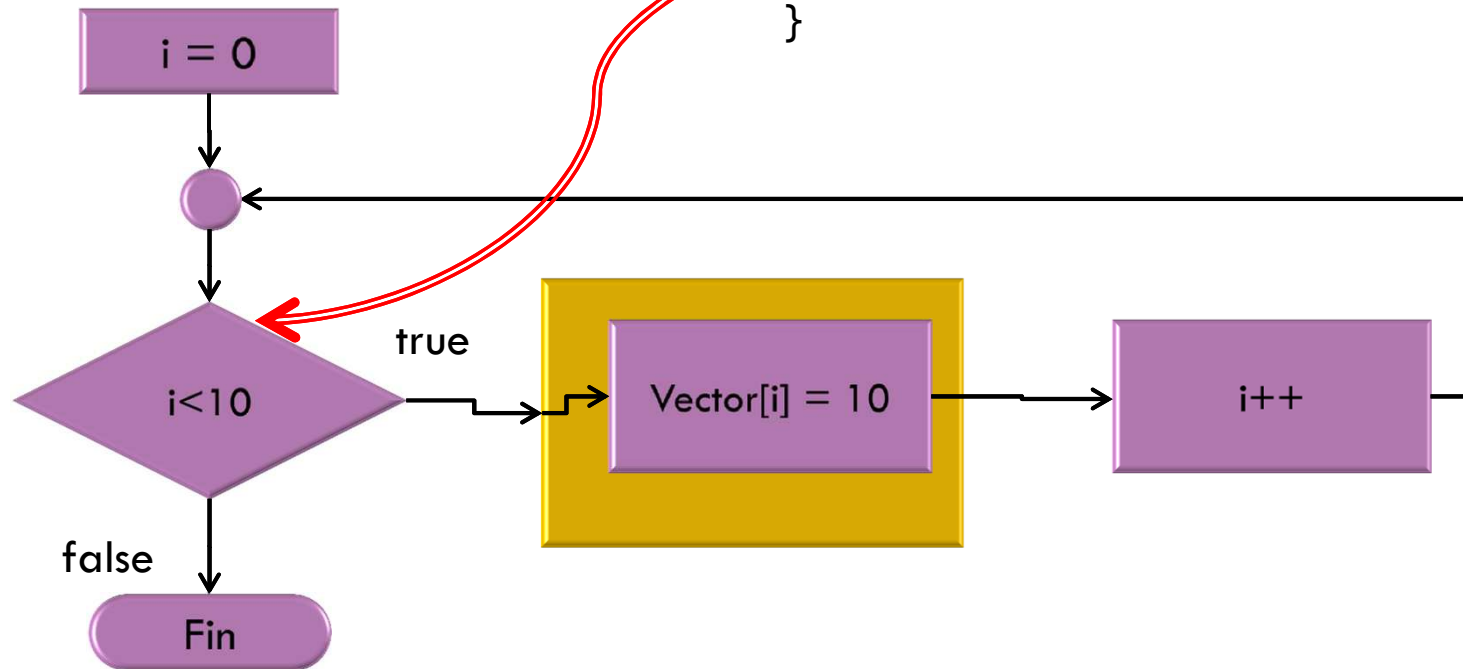
```
public static void main (String [] args){
```

```
    int [] vector = new int [10];
```

```
    for (int i = 0; i<10; i++){  
        vector[i] = 10;
```

```
    }
```

```
}
```



Ciclo for

10

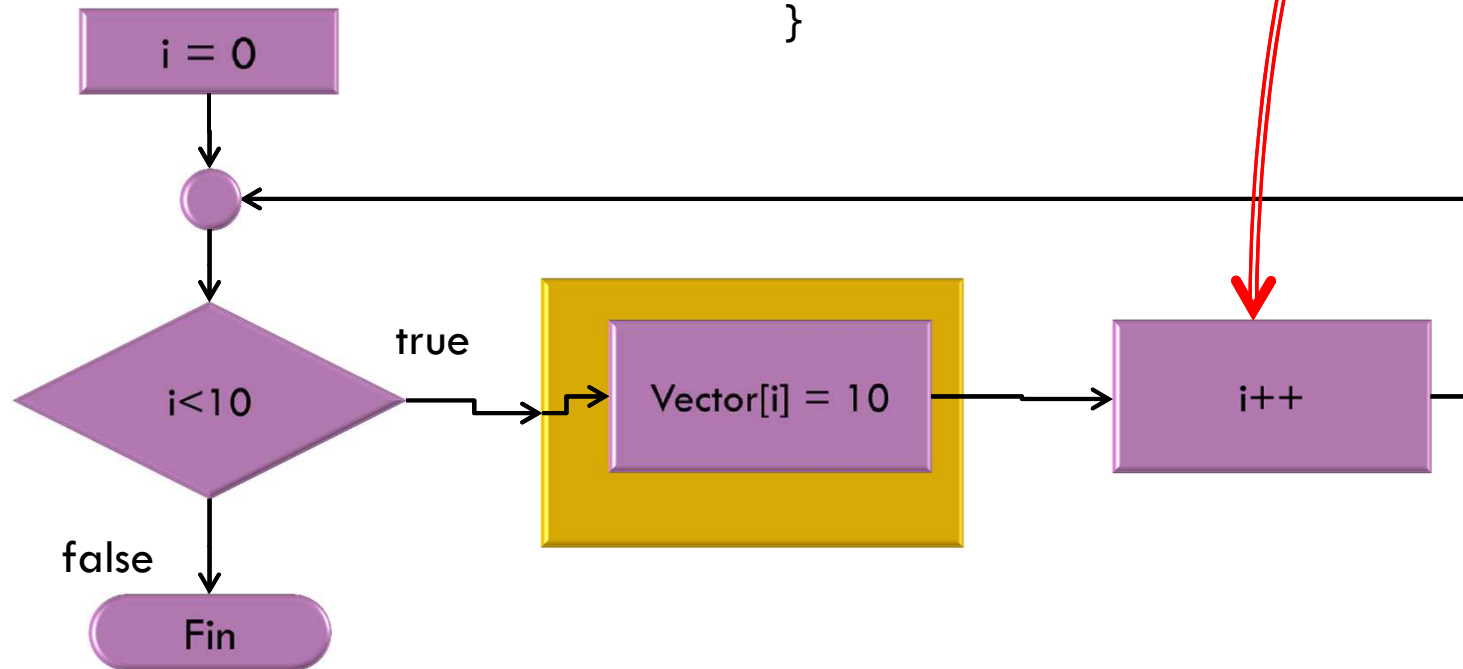
```
public static void main (String [] args){
```

```
    int [] vector = new int [10];
```

```
    for (int i = 0; i<10; i++){  
        vector[i] = 10;
```

```
    }
```

```
}
```



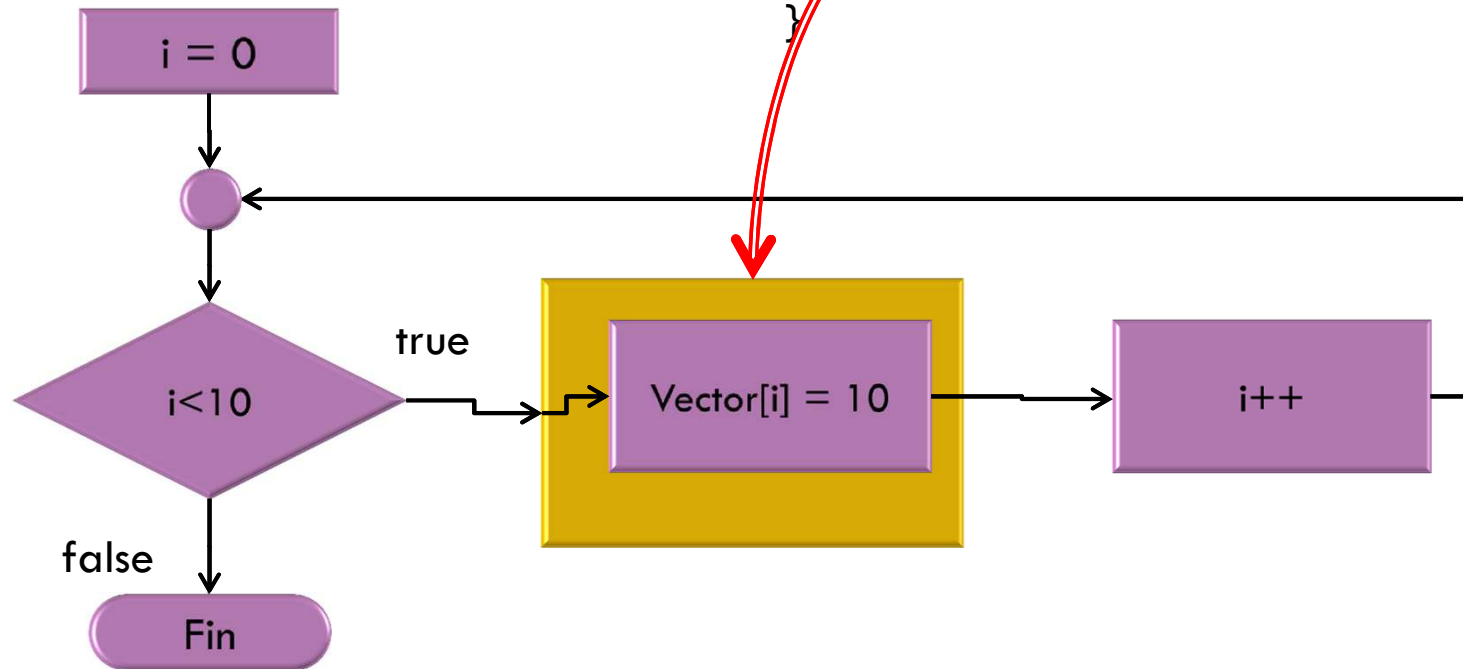
Ciclo for

11

```
public static void main (String [] args){
```

```
    int [] vector = new int [10];
```

```
    for (int i = 0; i<10; i++){  
        vector[i] = 10;  
    }
```



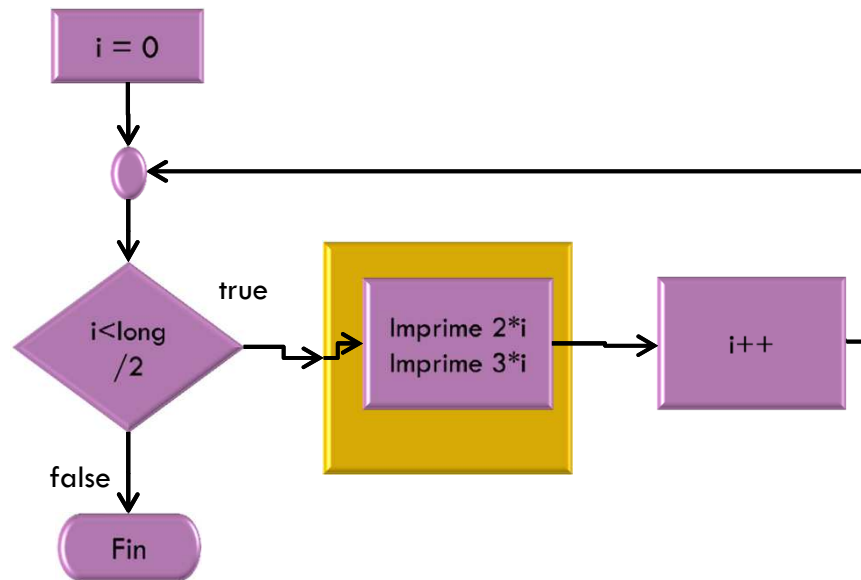
```
public static void main (String [] args){  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=longitudSerie; i++){  
        System.out.print (2*i+", ");  
    }  
}
```

Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

13

```
public static void main (String [] args){  
  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



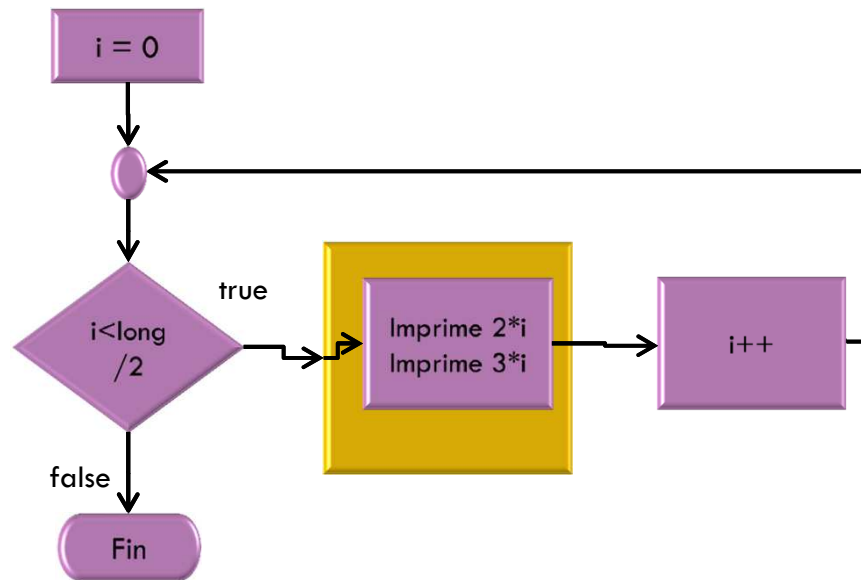
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

14

```
public static void main (String [] args){  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50



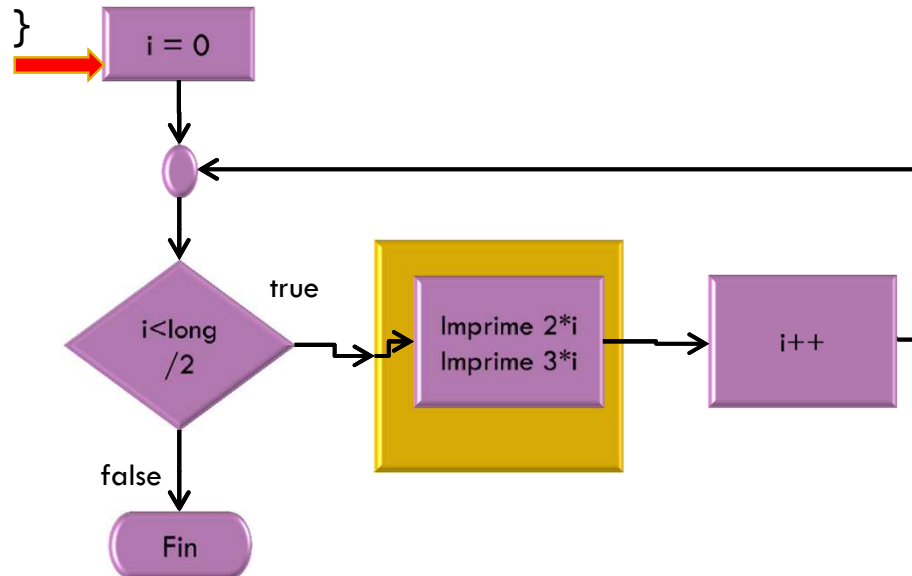
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

15

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    → for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50
i	1



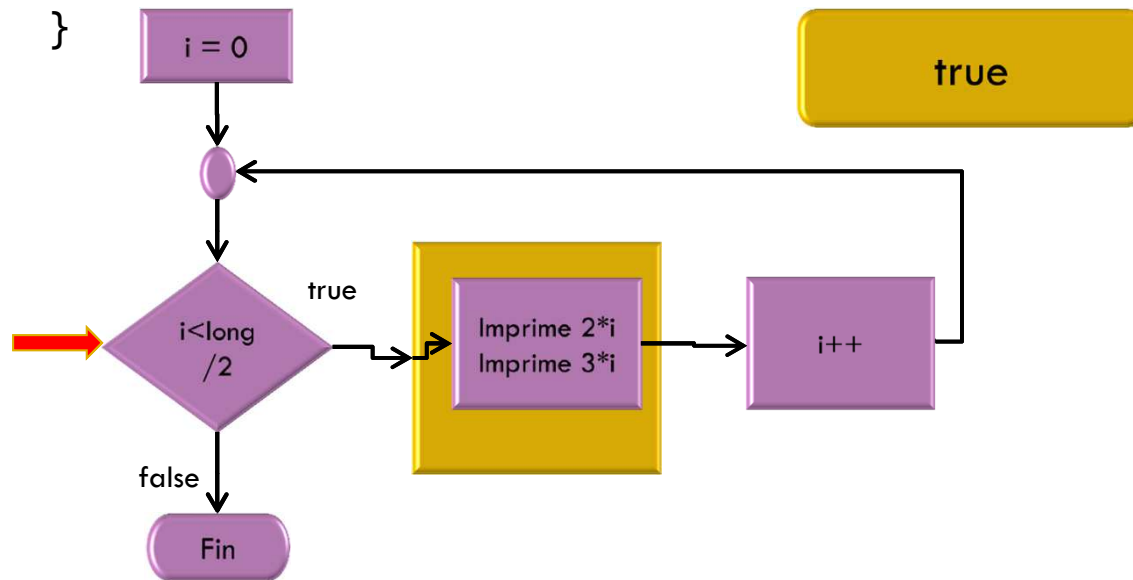
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

16

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    → for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50
i	1

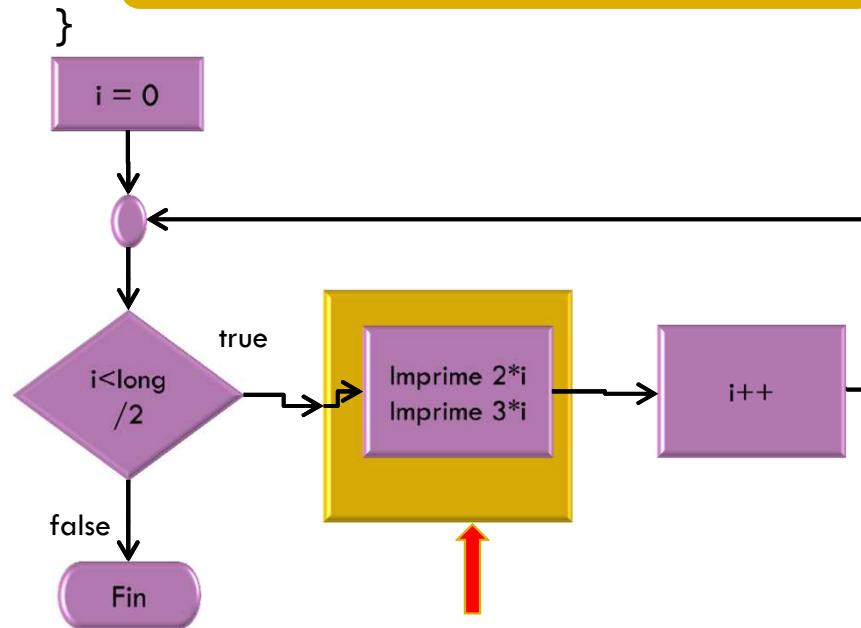


Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

17

```
public static void main (String [] args){  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



longitudSerie	50
i	1

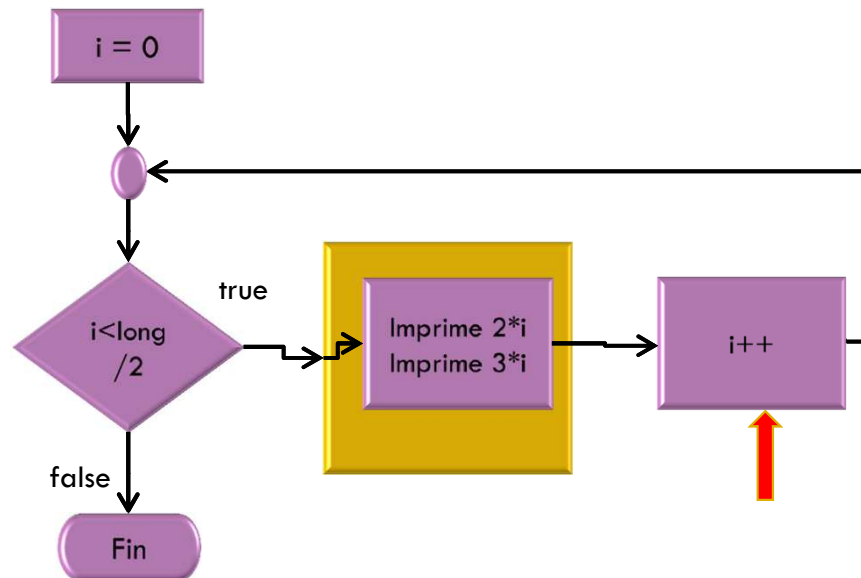
2, 3,

Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

18

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



longitudSerie	50
i	2

2, 3,

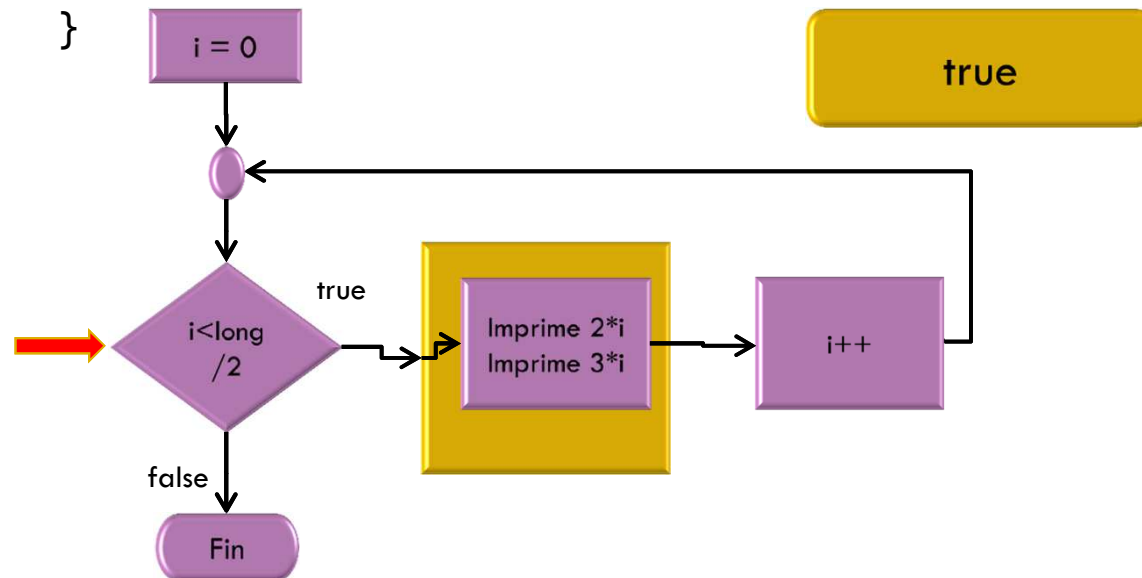
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

19

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    → for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50
i	2



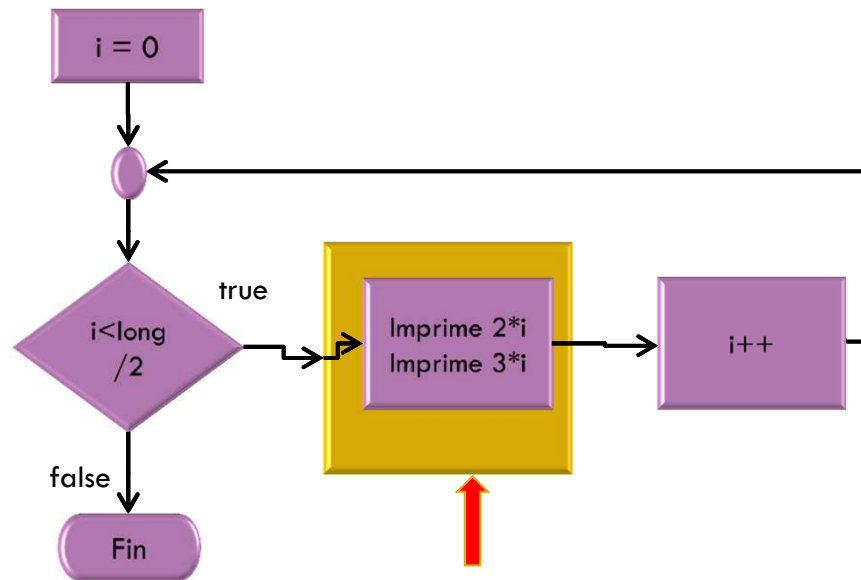
2, 3,

Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

20

```
public static void main (String [] args){  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



longitudSerie	50
i	2

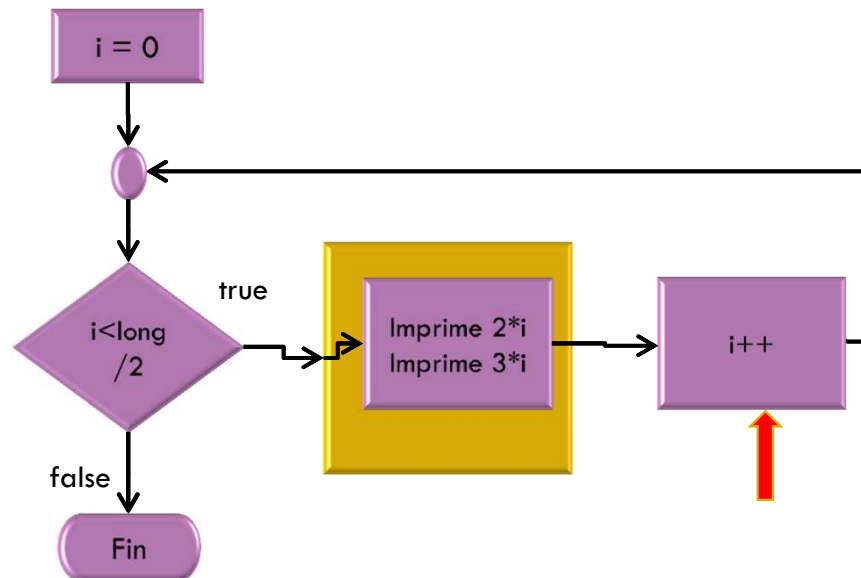
2, 3, 4, 6,

Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

21

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



longitudSerie	50
i	3

2, 3, 4, 6,

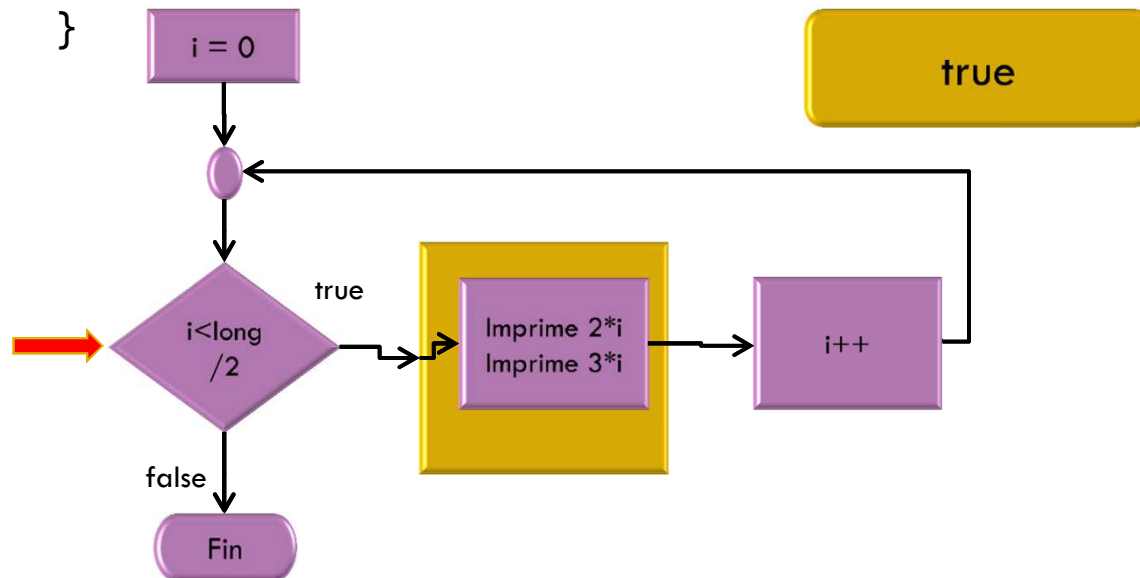
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

22

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    → for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50
i	3



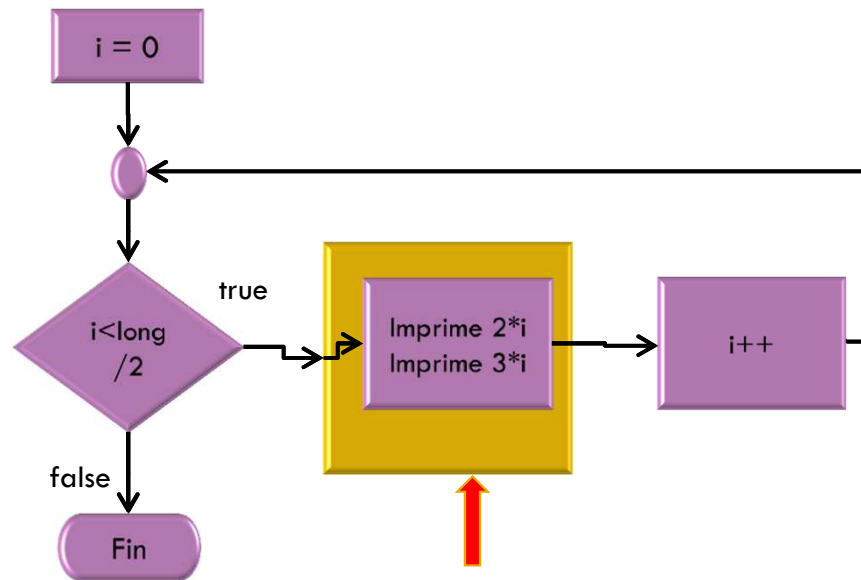
2, 3, 4, 6,

Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

23

```
public static void main (String [] args){  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



longitudSerie	50
i	3

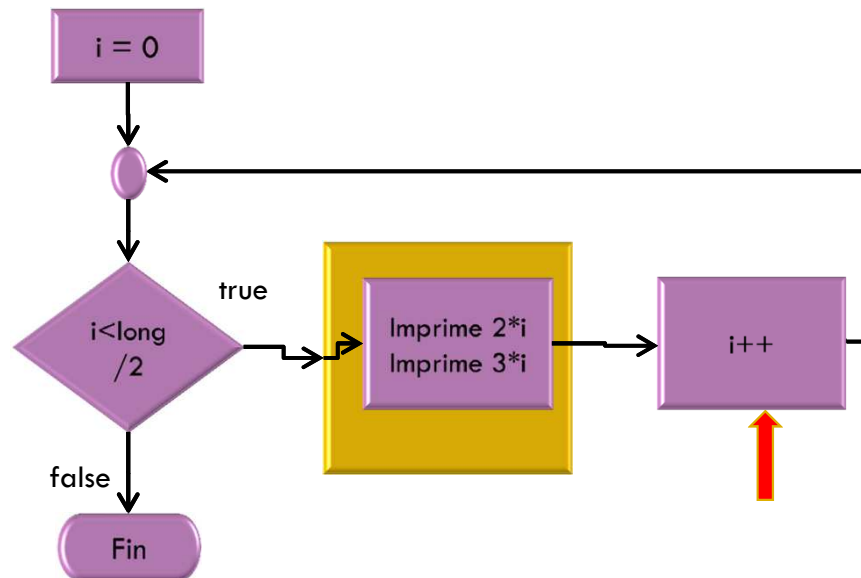
2, 3, 4, 6, 6, 9

Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

24

```
public static void main (String [] args){  
    int longitudSerie = 50;  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```



longitudSerie	50
i	4

2, 3, 4, 6, 6, 9,

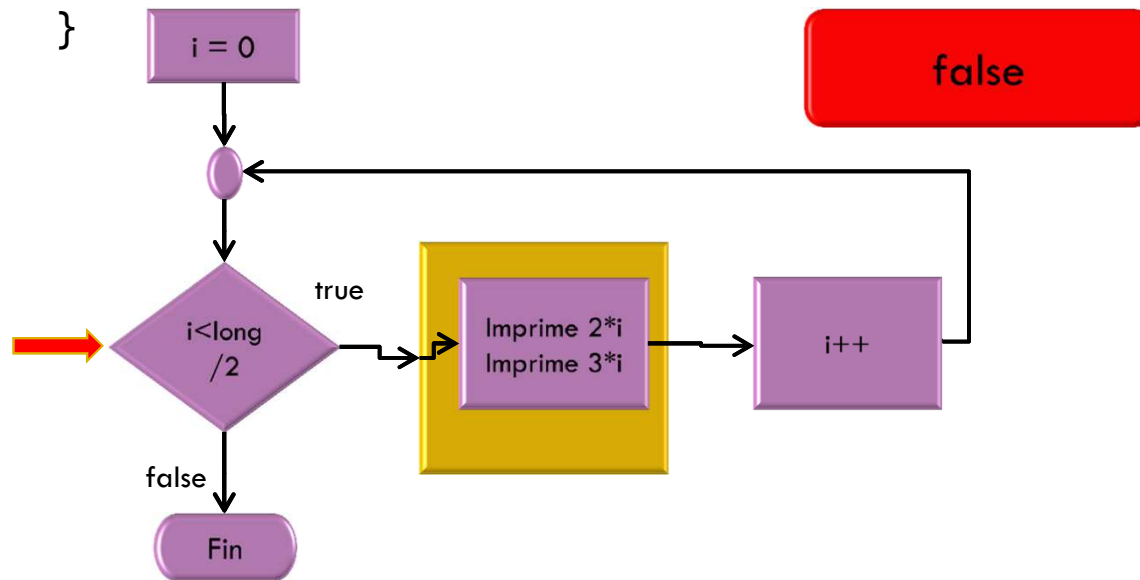
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

25

```
public static void main (String [] args){  
  
    int longitudSerie = 50;  
  
    → for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50
i	25



2, 3, 4, 6, 6, 9, 8, 12, 10,
15, 12, 18, 14, 21, 16, 24,
18, 27, 20, 30, 22, 33, 24,
36, 26, 39, 28, 42, 30, 45,
32, 48, 34, 51, 36, 54, 38,
57, 40, 60, 42, 63, 44, 66,
46, 69, 48, 72, 50, 75,
BUILD SUCCESSFUL (total

time: 1 second)

19/03/2013

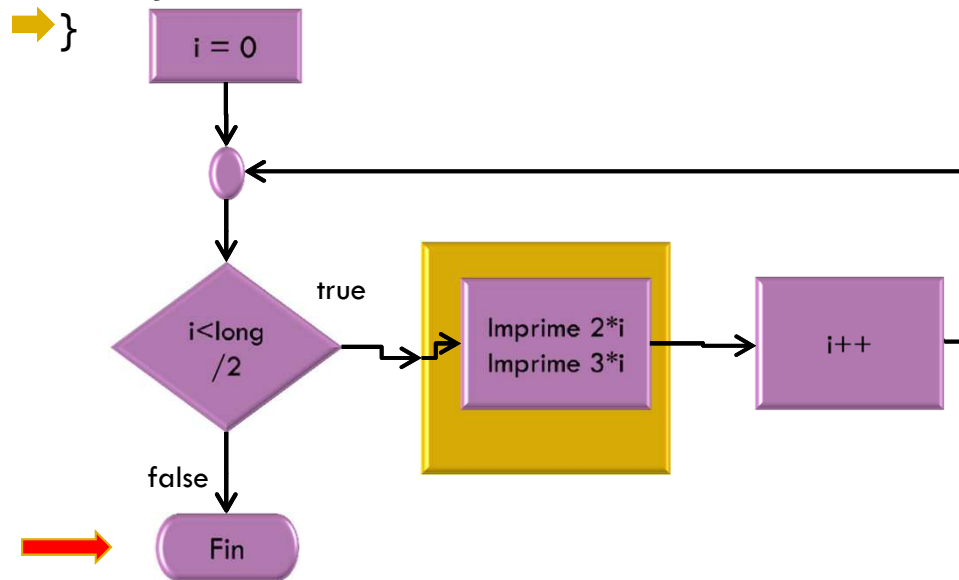
Ejemplo:

Mostrar la serie: 2, 3, 4, 6, 6, 9, 8, 12, 10,

26

```
public static void main (String [] args){  
  
    int longitudSerie = 50;  
  
    for (int i = 1; i<=(longitudSerie/2); i++){  
        System.out.print (2*i+", ");  
        System.out.print (3*i+", ");  
    }  
}
```

longitudSerie	50
i	25



2, 3, 4, 6, 6, 9, 8, 12, 10,
15, 12, 18, 14, 21, 16, 24,
18, 27, 20, 30, 22, 33, 24,
36, 26, 39, 28, 42, 30, 45,
32, 48, 34, 51, 36, 54, 38,
57, 40, 60, 42, 63, 44, 66,
46, 69, 48, 72, 50, 75,
BUILD SUCCESSFUL (total

time: 1 second)

19/03/2013

Ejercicio

27

- Declarar un arreglo llamado "a" de 100 posiciones.
- Utilizar un ciclo for para llenar el arreglo con valores del 100 al 1.
- Mostrar el arreglo en pantalla.

a[0]	100
a[1]	99
a[2]	98
a[3]	97
a[4]	96
a[5]	95
a[6]	94
a[7]	93
a[8]	92
a[9]	91
...	...

```
public static void main (String [] args){  
  
    int [] a = new int [100];  
  
    for (... ; ... ; ... ){  
  
    }  
  
    for (int i = 0; i<100; i++){  
        System.out.println (a[i]);  
    }  
}
```