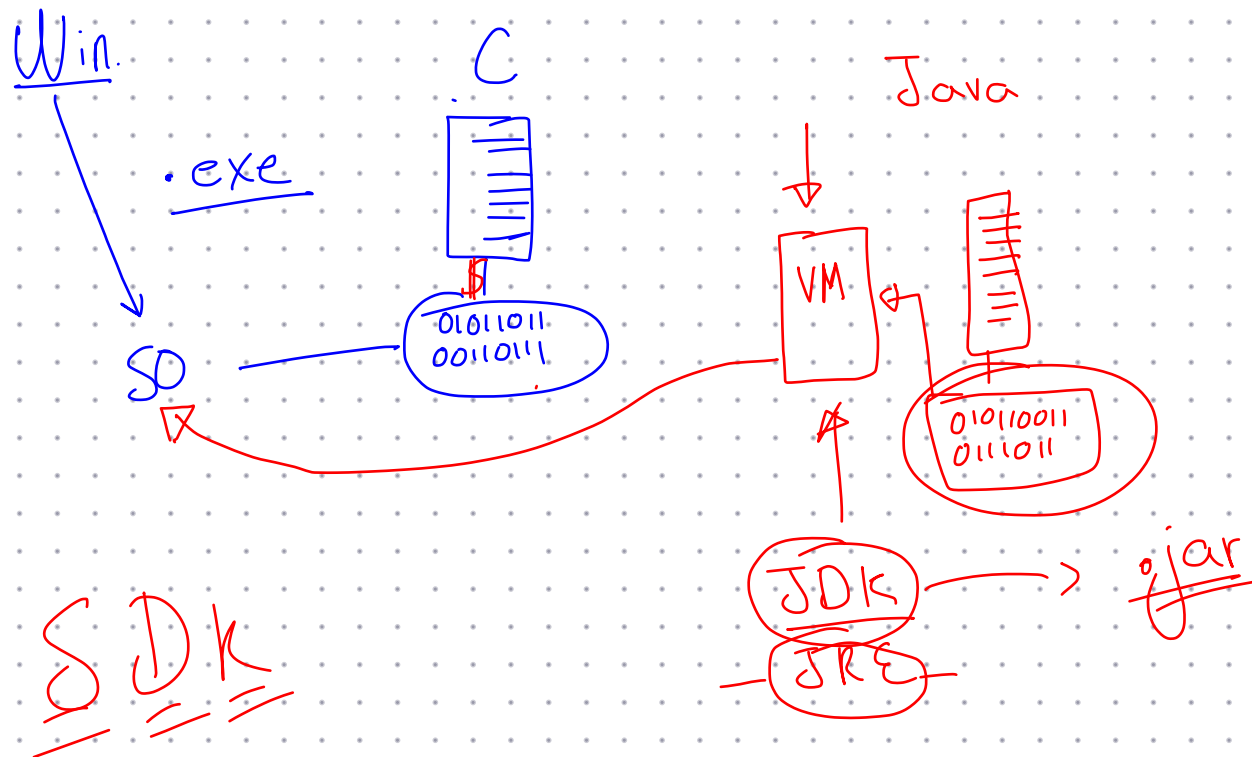


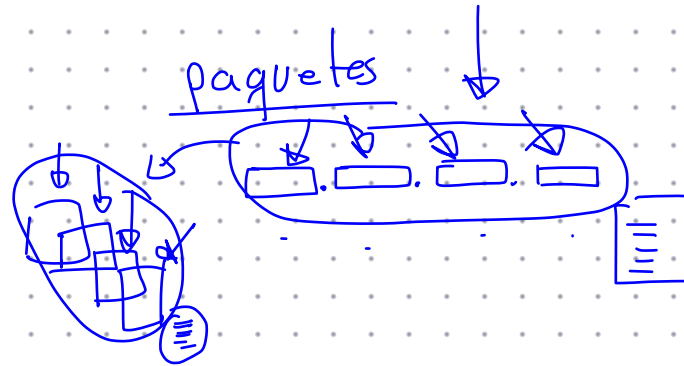


## *Curso de Java intermedio - Programación orientada a objetos*





JDK — [JRE]  
Eclipse IDE



Unidad. Basica

Clase  
class

[Criterio Visibilidad] \_ [Tipo dato respuesta] \_ [nombre] ( [tipoDato] \_ [nombre] , [tipoDato] \_ [nom] ) { }

public  
private  
protected

void  
short  
int  
long  
float  
double  
bool  
String  
[ ]

short  
int  
long  
float  
double  
bool  
String

[ ]

short  
int  
long  
float  
double  
bool  
String

[ ]

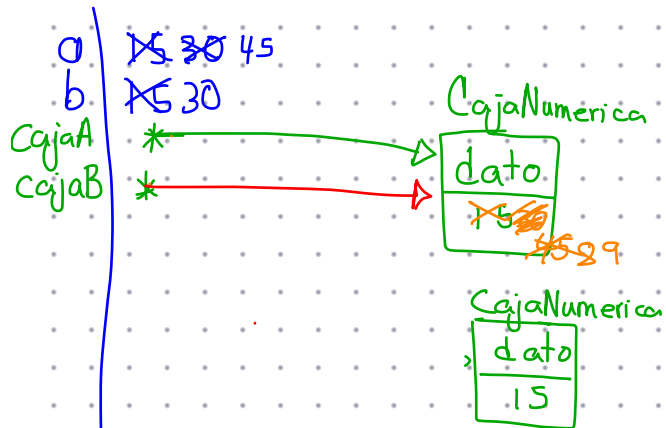
return [Variable];

```
public int sumar(int a, int b) {  
    int suma = a + b;  
    return suma;  
}
```

```
public void imprimirTabla(int numeroParaTabla) {  
    =====
```

```
}  
public void imprimirTodasTablas() {  
    =====
```

```
}
```

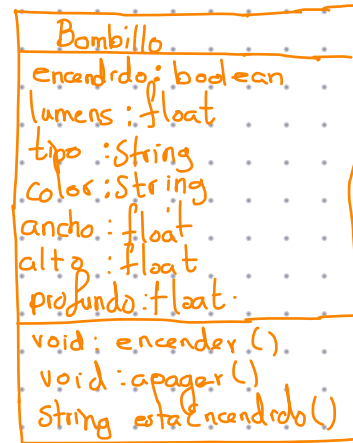


Pantalla

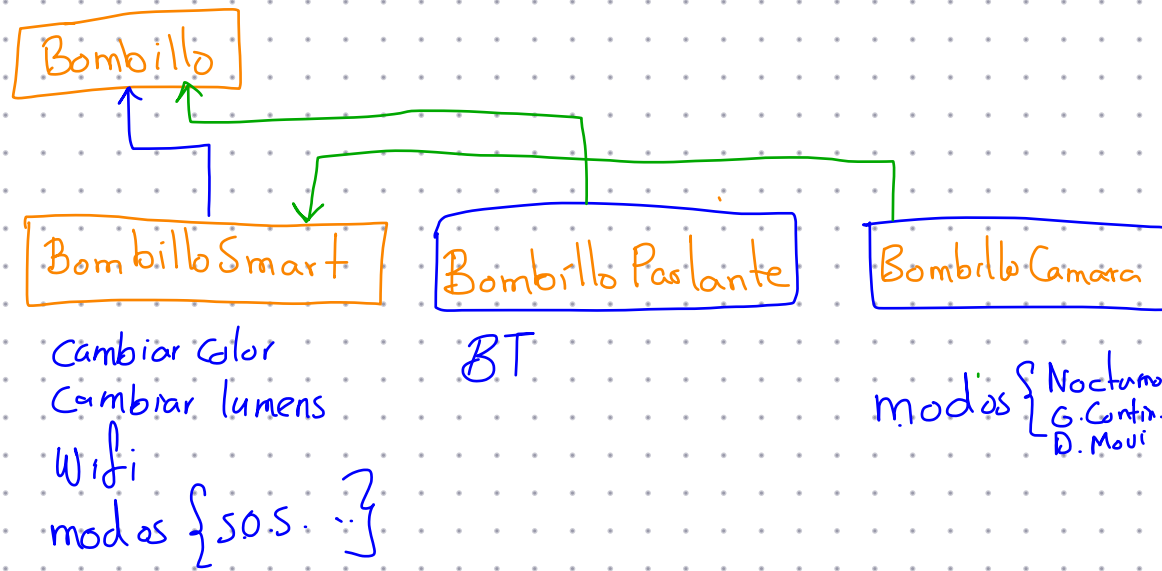
30	30
15	15
45	45
30	45
	89
	89

Caja B = Caja A  
 CajaB = \* →

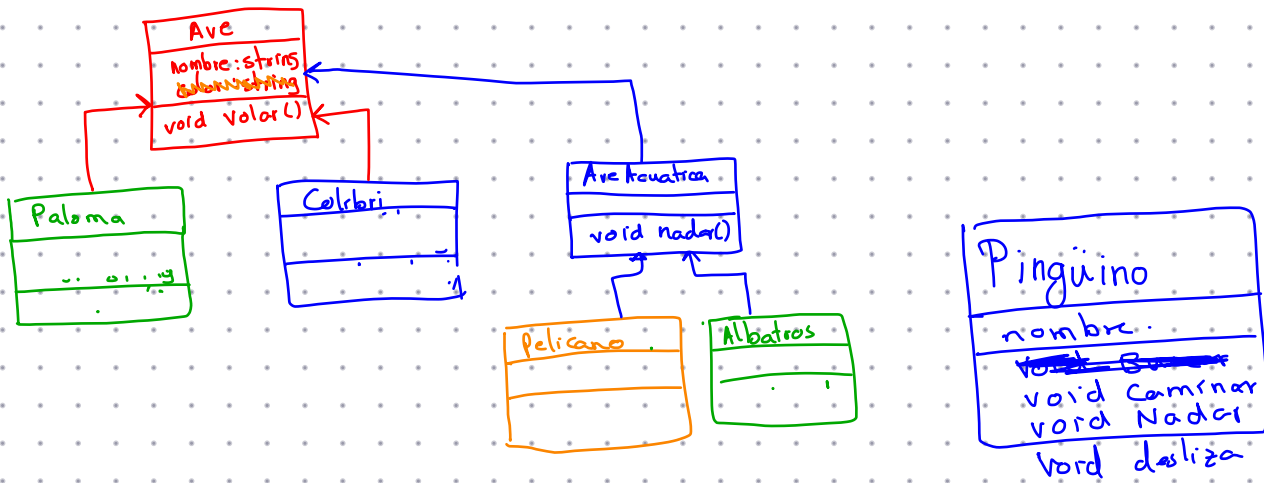
UML

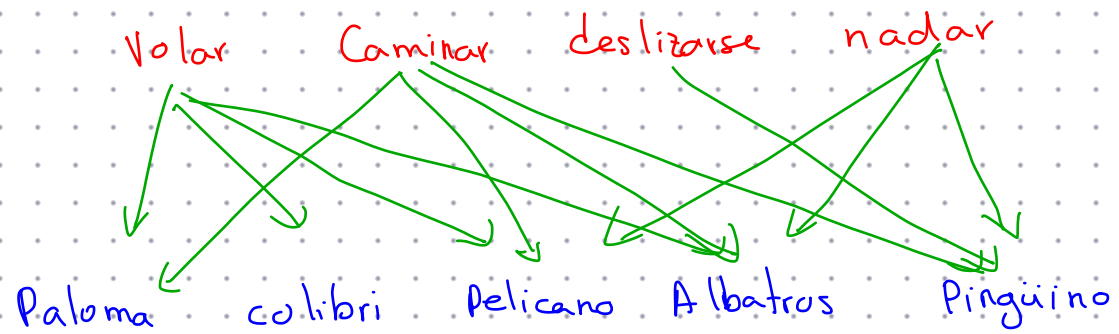


proyecto Herencia



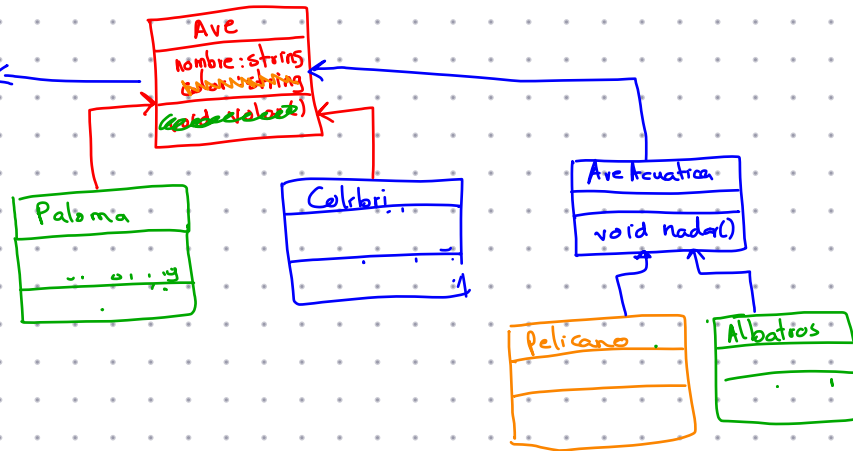




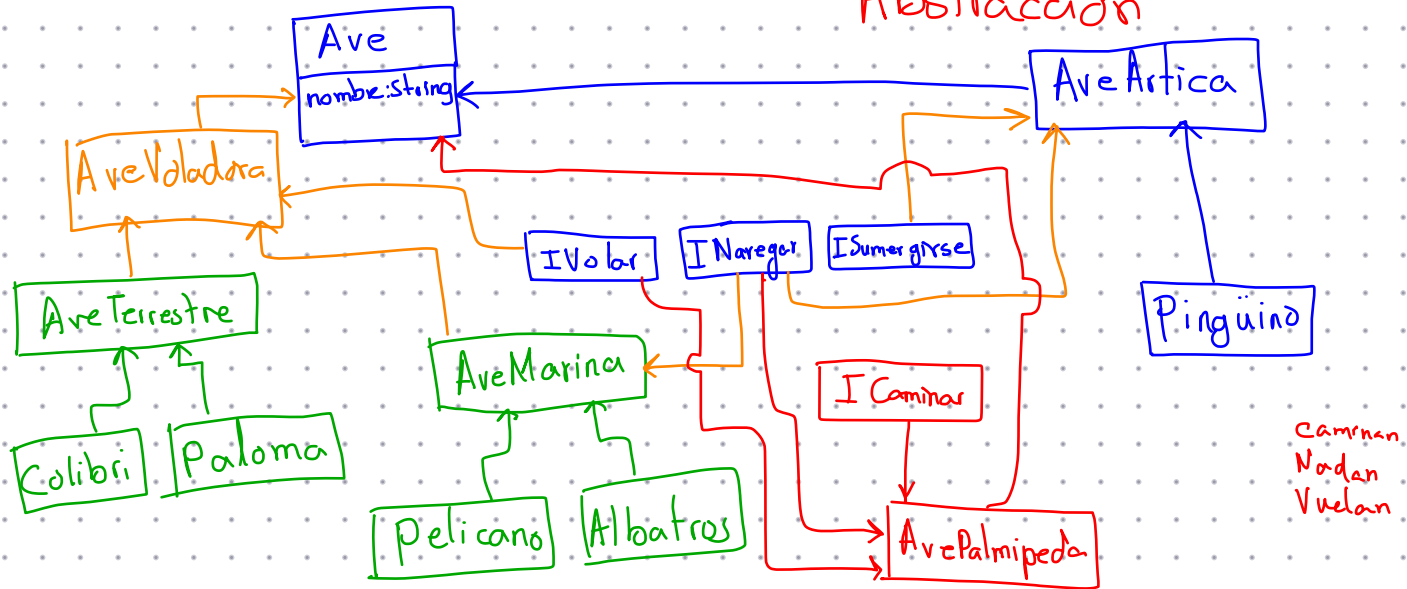


Interfaz  
Comportamiento Volar

IVolar



## Abstracción



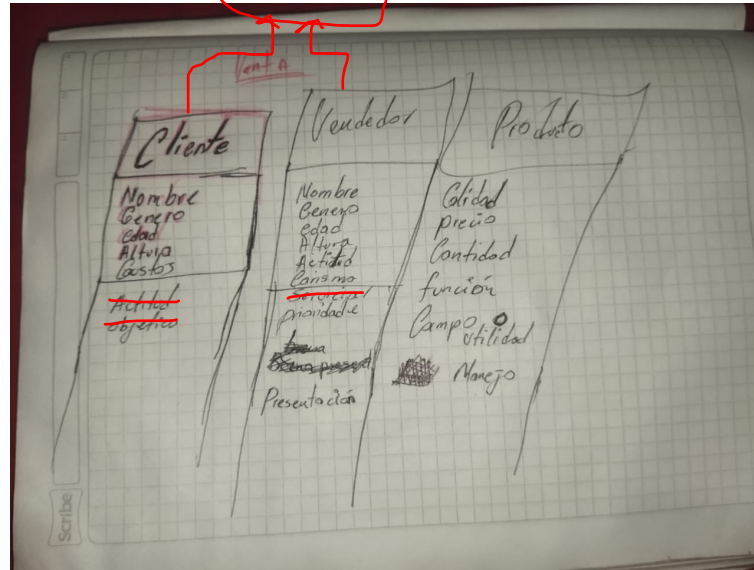
# Venta

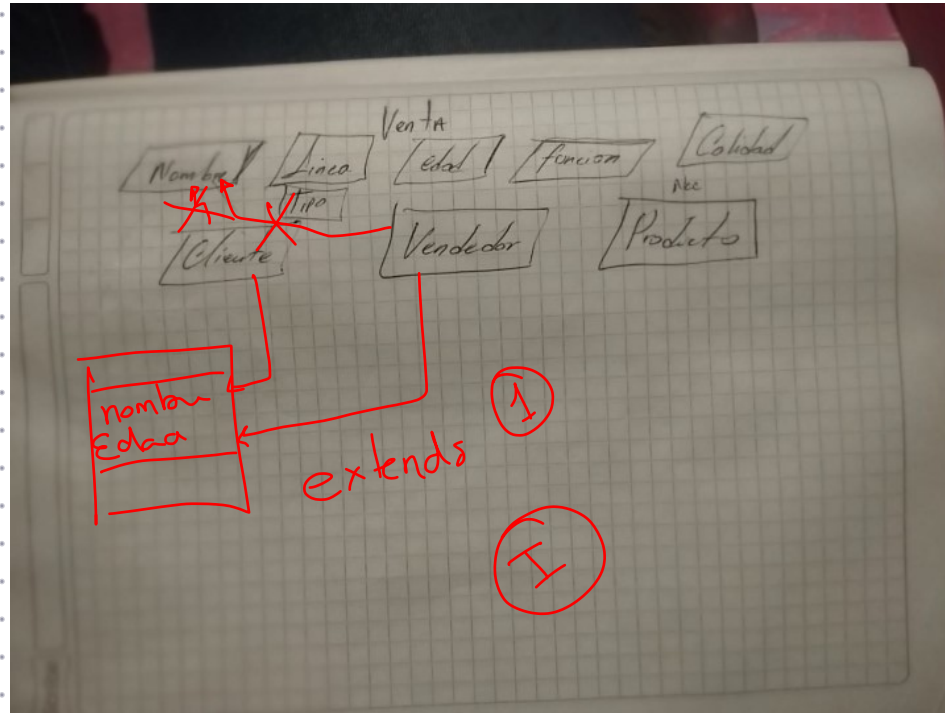
Cliente

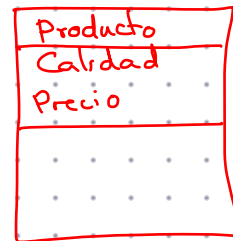
Producto

✓ endodor

Cliente







- b.caducar();

b. venderse ( )

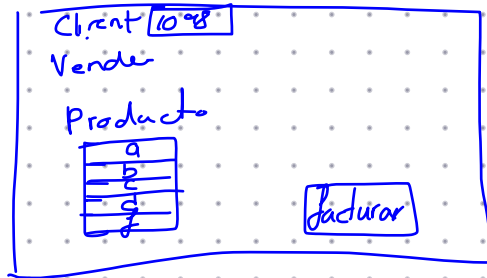
b.agotasse ();

## Bombillo

a. encoder();

Comportamientos  $\equiv$  Acciones





```

a.venderse();
b.venderse();
c.venderse();
d.venderse();
f.venderse();

```

→ ~~if == 0~~

→ a.agotarse();

→ c.agotarse();

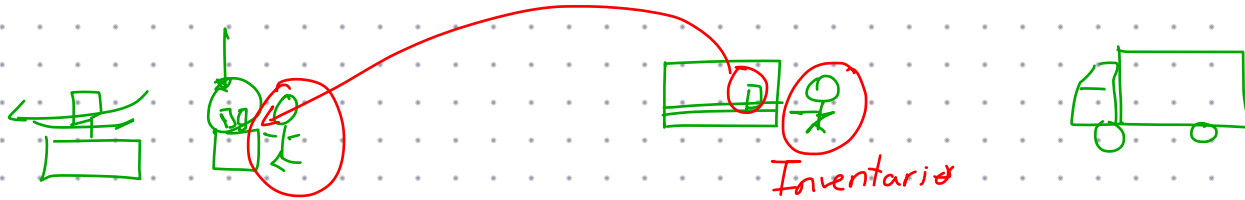
→ d.agotarse();

→ f.agotarse();

→ .agotarse();



Cafes. do lechu



Inventario  
Añadir Existencias

venderse()

Existencias

20
- 10
<hr/>
10
- 3
<hr/>
7
- 7
<hr/>
0
- 3
<hr/>
3
- 2
<hr/>
5
- 5
<hr/>
0
+ 25
<hr/>
25

25

Objetos  
Objetos como tipo de dato

Arrays ó Vectores

$a[5] \Rightarrow$ 

--	--	--	--	--

  
0 1 2 3 4 .....

① Solo consumen la mem necesaria

② Elásticos

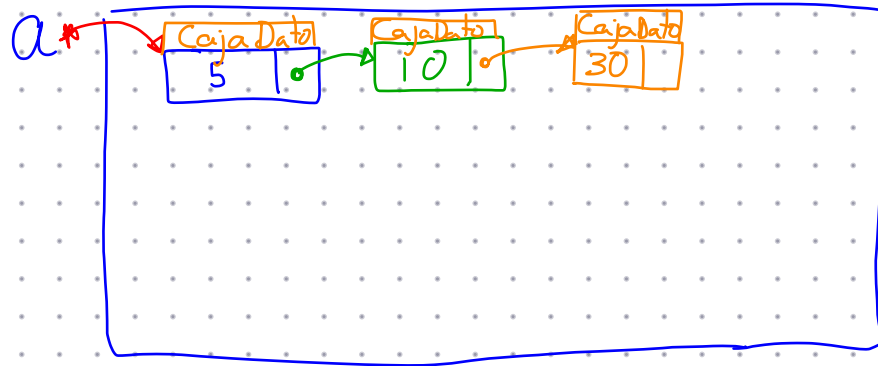
1, 2, 3 ... n

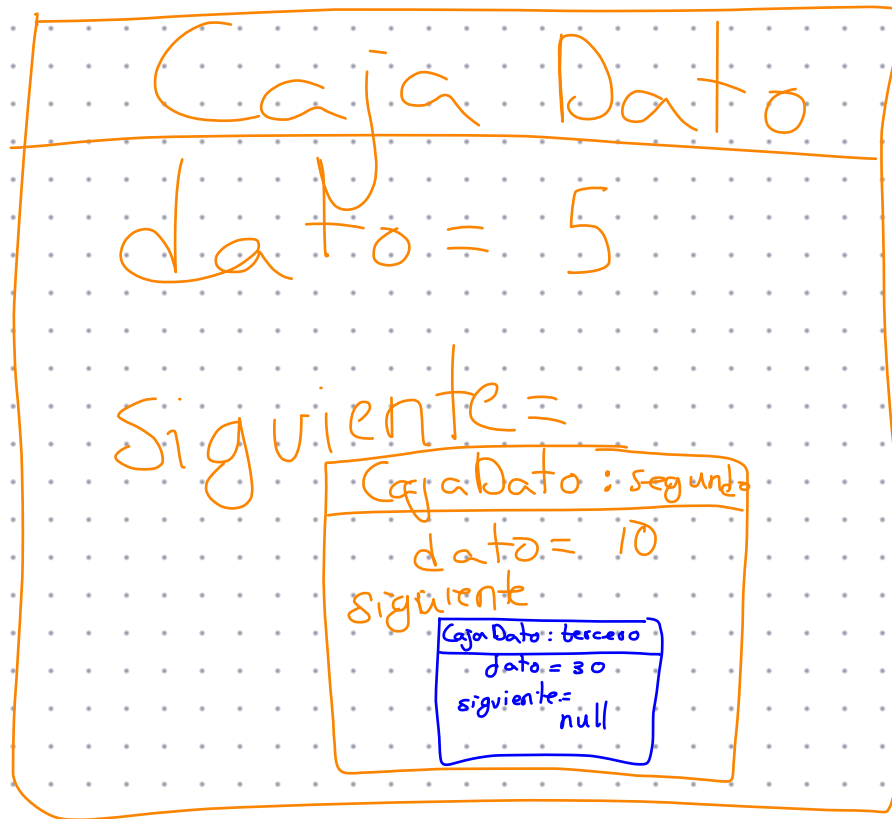
Listas

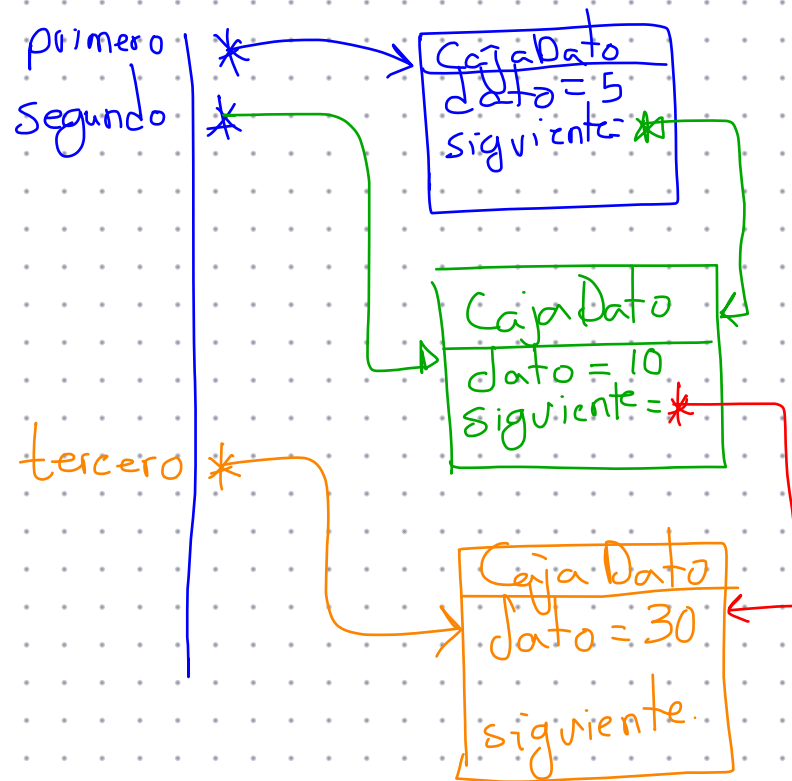
`new List();`

funcion  
agregar

`a.agregar(5);`  
`a.agregar(10);`  
`a.agregar(30);`







①

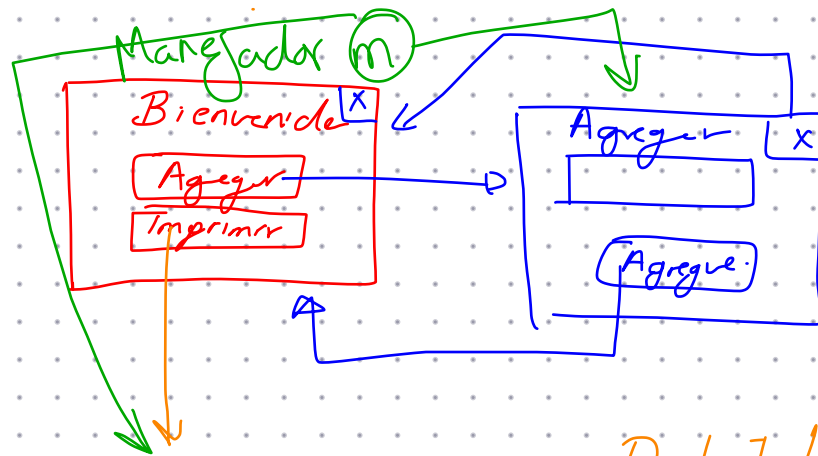
- ① - Agregar
- ② Imprimir Todos
- 9

②

- ① Visualizar
- 2 Agregar

5

- 1 ver siguiente
- 2 ver anterior
- 9 Volver al menu principal



Todos los datos (X)

10
200
300

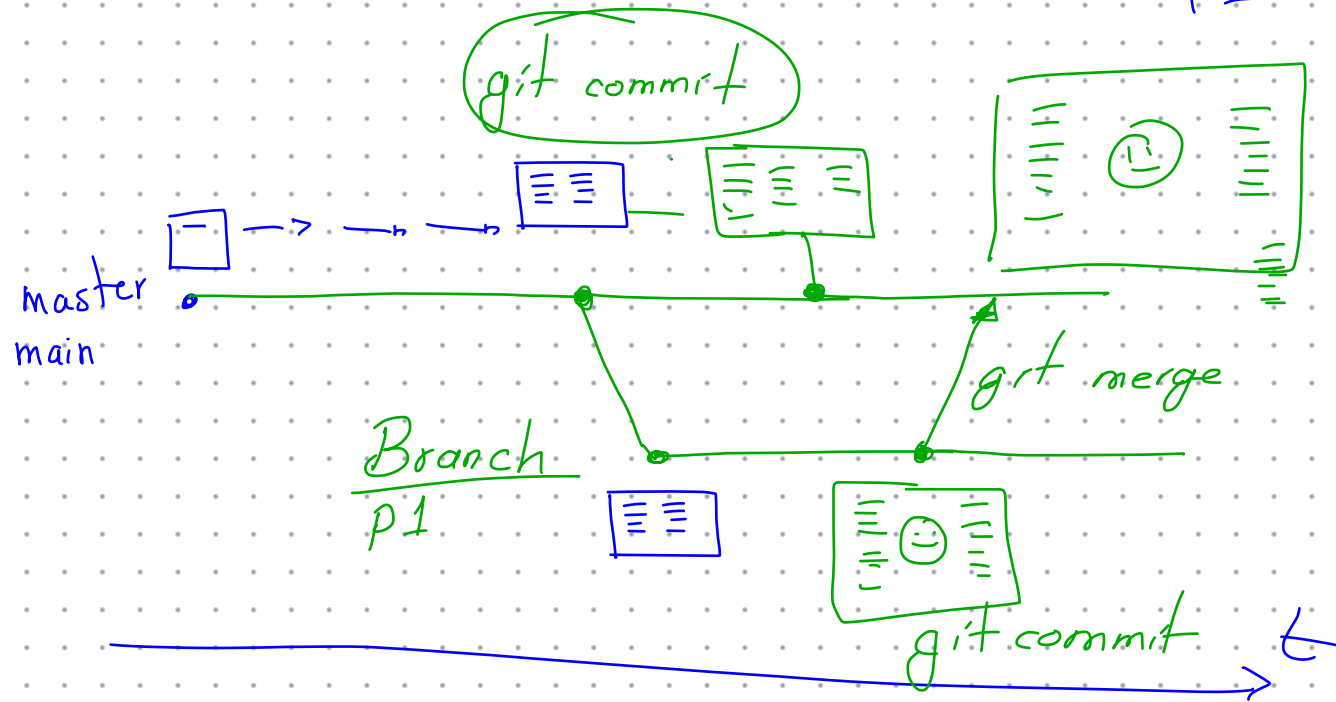
DataTable


Default Data

J DataTable

git

git init





Solo sea divisible por 1 y por el mismo

$$\begin{array}{l} \textcircled{15} \rightarrow 1 \div = 15 \\ \textcircled{15} \rightarrow 15 \div = 1 \end{array}$$

$$\begin{array}{l} \frac{15}{1} = 15 = \frac{x}{1} = x \\ \frac{\cancel{15}}{\cancel{15}} = \frac{1}{1} = 1 = \frac{x}{x} = 1 \end{array}$$

$$\begin{array}{l} 2 \rightarrow x/2 \\ 2 \rightarrow \frac{15}{2} \end{array}$$

$$2 \rightarrow 7$$

$$\frac{15}{2} \quad \frac{15}{3} \quad \frac{15}{4} \quad \frac{15}{5} \quad \frac{15}{6} \quad \frac{15}{7}$$

$$7.5$$

$$15 \div 3 = 5 \checkmark$$

$X \rightarrow \text{Probar}$   
 $\{ 2 \rightarrow X/2 \}$  si las divisiones de  $X$   
por cada numero no son  
exactos

- A la primera division exacta  
ya podriamos decir que no  
es numero primo

new Bicicleta ( )

