

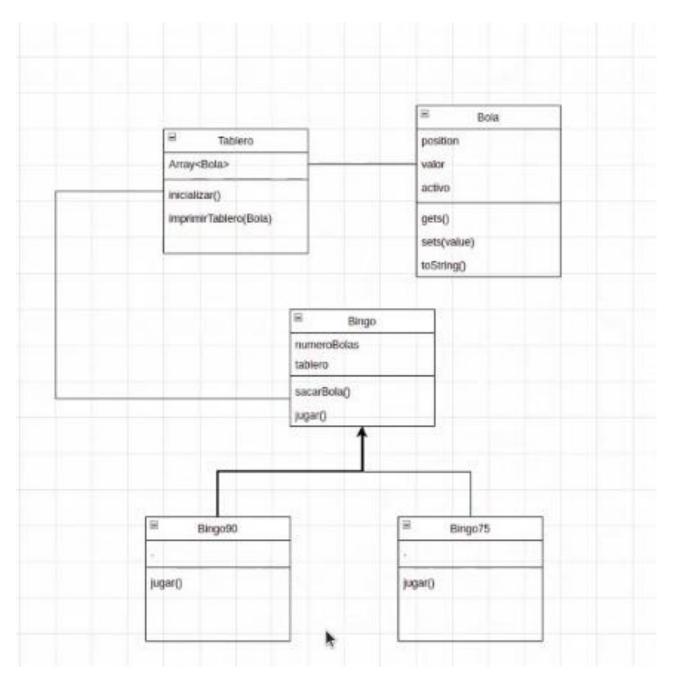
Nombre: Eddie Leonardo Ajoy Li

Materia: Objetos y abstracción de datos

Docente: Ing. Luis Quishpi. MSc.

Fecha: 02/12/2022

## Diagrama de clases:



Link del git hub: <a href="https://github.com/Julius266/Bingo1.1">https://github.com/Julius266/Bingo1.1</a>

## Capturas de la ejecución del programa:

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.metadata - Bingo_2/src/bingo/Main.java - Eclipse IDE
<u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
Package Explorer ×
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> 📂 Algoritmos
                                                                                                                                                                                                                                           package bingo;
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                                                                                                                                                                                                                                                 import java.io.IOException;
 > BINGO
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                                                                                                                                                                                                                                                             public static void main(String[] args) throws IOException {
   /* Bingo bingo90 = new Bingo90();
   bingo90.jugar(); */
       ✓ 🤔 src
✓ 🔠 bingo
                     > Ingo

In
                                                                                                                                                                                                                                                                   Bingo bingo75 = new Bingo75();
bingo75.jugar();
                       > Main.java
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                          > 🕖 Tablero.java
                     module-info.java
                Bola.java
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.metadata - Bingo_2/src/bingo/Bingo75.java - Eclipse IDE
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> Algoritmos
                                                                                                                                                                                                                                                                             1 package bingo;
 > 😸 Algotimos
                                                                                                                                                                                                                                                                             3 import java.io.IOException;
 > 18 BINGO
                                                                                                                                                                                                                                                                          -
5 public class Bingo75 extends Bingo {
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7⊖ public Bingo75() {

→ Bingo_2

         > M JRE System Library [JavaSE-18]

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                  ∨ # bingo
                           > 🖟 Bingo java
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                           > Bingo75.java
                            Bingo90.java
                                                                                                                                                                                                                                                                                                   @Override
protected void jugar() {
   getTablero().inicializar();
                           Bola.java
                                                                                                                                                                                                                                                                  413
                           Main.java
                                                                                                                                                                                                                                                                        14
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                            > Tablero.java
                                                                                                                                                                                                                                                                                                                    for (int 1 = 1; 1 <= 75; 1++) {
   System.out.println("Pulse enter para sacar bola..");
   Bola bola = new Bola();</pre>
                    > II module-info.java
                 Bola.java
                                                                                                                                                                                                                                                                                                                                  try {
    System.in.read();
    sacarBola()
 > 255 POOZ
                                                                                                                                                                                                                                                                                                                                bola = sacarBola();
} catch (IOException e) {
   e.printStackTrace();
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                                                                                                                                                                                                                                                                                                                                  getTablero().imprimirTablero(bola);
                                                                                                                                                                                                                                                                                                  }
```

```
.metadata - Bingo_2/src/bingo/Bingo90.java - Eclipse IDE
<u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
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□ Package Explorer ×
> 📂 Algoritmos
                                                                              package bingo;
> 🔀 Algotimos
                                                                           3 import java.io.IOException:
> 😂 BINGO

→ Bingo_2

                                                                           5 public class Bingo90 extends Bingo {
   > A JRE System Library [JavaSE-18]
                                                                                  public Bingo90() {
    super(90);

→ 🔠 bingo

       > 🖟 Bingo.java
       > 🛭 Bingo75.java
                                                                          110
                                                                                  @Override
        > Dingo90.java
                                                                                  protected void jugar()
                                                                        △12
                                                                                      tected void jugar() {
   getTablero().inicializar();
       > D Bola.iava
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       > 🗓 Main.java
                                                                                       for (int i = 1; i <= 90; i++) {
   System.out.println("Pulse enter para sacar bola..");
   Bola bola = new Bola();</pre>
        > 🚺 Tablero.java
     > 🚺 module-info.java
                                                                                           try {
     Bola.java
                                                                                               System.in.read();
> 😭 POO2
                                                                                          bola = sacarBola();
} catch (IOException e)
e.printStackTrace();
                                                                                      getTablero().imprimirTablero(bols);
}
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                                                                                 }
```

```
.metadata - Bingo_2/src/bingo/Tablero.java - Eclipse IDE
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 > Algoritmos
> Algoritmos
> BINGO
                                                                                                                                                                                                                                                                                                    ~ <del>*</del>
                                                                                             3⊕ import java.util.Scanner;[]
6 public class Tablero {
                                                                                                    private ArrayList<Bola> tablero;
int x;
                                                                                                    int x;
boolean band = true;
public Tablero() {
   this.tablero = new ArrayList<Bola>();
}

Bingo,java
Bingo75,java
Bingo90,java
Bingo90,java
Bola,java
Main,java
Tablero,java
                                                                                         public void inicializar() {
    Scanner ss = new Scanner(System.in);
    System.out.print("Ingrese los numeros de la tabla: ");
    x = sc.nextInt();
       > II module-info.java
 → ☑ modul
☑ Bola.java
→ 🔀 POO2
                                                                                                          System.out.println("Inicializando bingo de " + x + "PELOTAS");
int valorBola = 1;
                                                                                                         if (x == 90) {
   for (int i = 0; i < 9; i++) {
      for (int j = 0; j < 10; j++) {
            tablero.add(new Bola(valorBola - 1, valorBola + "", false));
            System.out.print(getBola(valorBola - 1) + "\t");
            valorBola+;</pre>
                                                                                                                    System.out.println("\n");
                                                                                                        }
else if (x -- 75){
    for (int i = 0; i < 15; i++) {
        for (int j = 0; j < 5; j++) {
            tablero.add(new Bola(valorBola - 1, valorBola + **, false));
            System.out.print(getBola(valorBola - 1) + "\t");
            valorBola+;
                                                                                                                    System.out.println("\n");
}
                                                                                                         }
else {
    System.out.println("Opcion Incorrecta");
                                                                                                    public void imprimirTablero(Bola bola) {
                                                                                                         bola.setValor("[" + bola.getValor() + "]");
tablero.set(bola.getPosition(), bola);
int valorBola = 1;
```

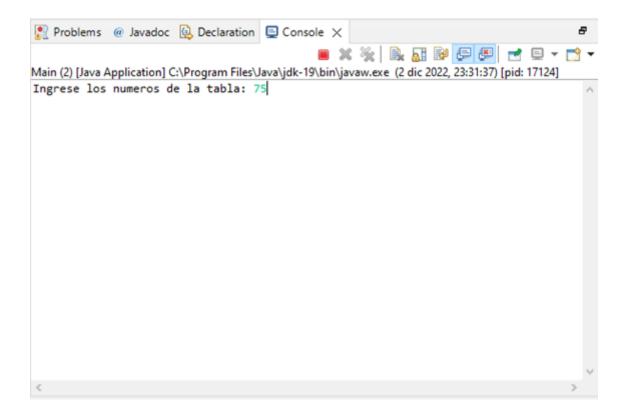
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.metadata - Bingo_2/src/bingo/Bingo.java - Eclipse IDE
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Package Explorer X
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> 🔀 Algoritmos
                                                                                        1 package bingo;
 > 🔀 Algotimos
                                                                                        3 import java.util.Random;
 > S BINGO
                                                                                       public abstract class Bingo {
    private int numeroBolas;
    private Tablero tablero;
   > M JRE System Library [JavaSE-18]
   ∨ ∰ src

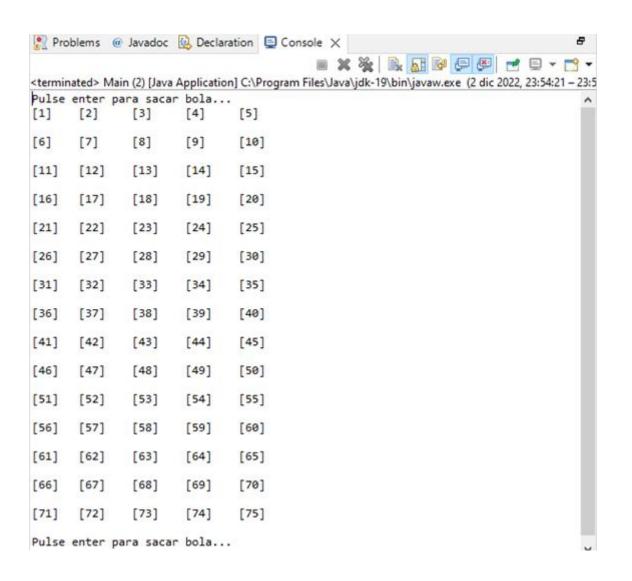
→ i bingo

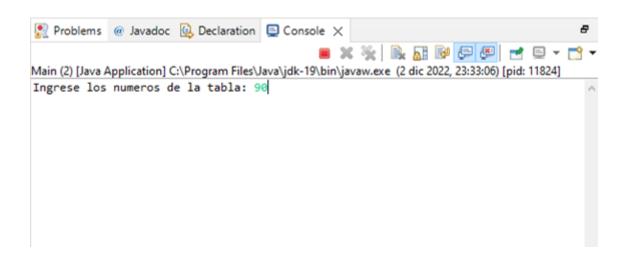
                                                                                               public Bingo(int numeroBolas) {
         > A Bingo.java
                                                                                                   this.numeroBolas = numeroBolas;
setTablero(new Tablero());
         > D Bingo75.java
         Bola.java
                                                                                               public 8ola sacar8ola() {
    Random random = new Random();|
    int value = (random.nextInt(numero8olas - 1 + 1) + 1);
    return new Bola(value - 1, value + --, true);
         > 🛭 Main.java
         > Tablero.java
        module-info.java
      Bola.java
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                                                                                               protected abstract void jugar();
                                                                                               public int getNumeroBolas() {
    return numeroBolas;
}
                                                                                               public void setNumeroBolas(int numeroBolas) {
   this.numeroBolas = numeroBolas;
}
                                                                                      30
31⊖
                                                                                               public Tablero getTablero() {
    return tablero;
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                                                                                               public void setTablero(Tablero tablero) {
   this.tablero = tablero;
```

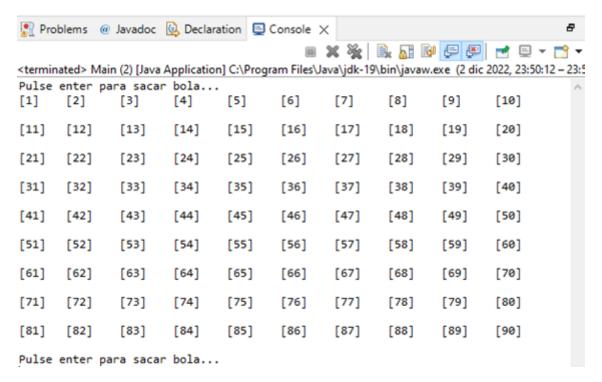
```
.metadata - Bingo_2/Bola.java - Eclipse IDE
- - E Out
.
Θ
                                                                      3 public class Bola {
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✓ å bingo
                                                                           public Bola() {
   this.activo = false;
      > A Bingo.java
> A Bingo75.java
> B Bingo90.java
> A Bola.java
                                                                   super();
this.position = position;
this.valor = valor;
this.activo = activo;
}
                                                                           public Bola(int position, String valor, boolean activo) {
       > Main.java
> Tablero.java
> 41 lablero.java
> 11 module-info.java

al Bola.java
> 22 POO2
                                                                            public String getValor() {
    return valor;
                                                                            public void setValor(String valor) {
    this.valor = valor;
                                                                            public boolean isActivo() {
                                                                            public void setActivo(boolean activo) {
   this.activo = activo;
                                                                            public int getPosition() {
    return position;
                                                                            public void setPosition(int position) {
    this.position = position;
                                                                            @Override
public String toString() {
    // String retorno = "Bols [Valor: " + valor + ", Activo: " + activo + "]";
```









https://github.com/Eddieajoy/Bingo75.git