



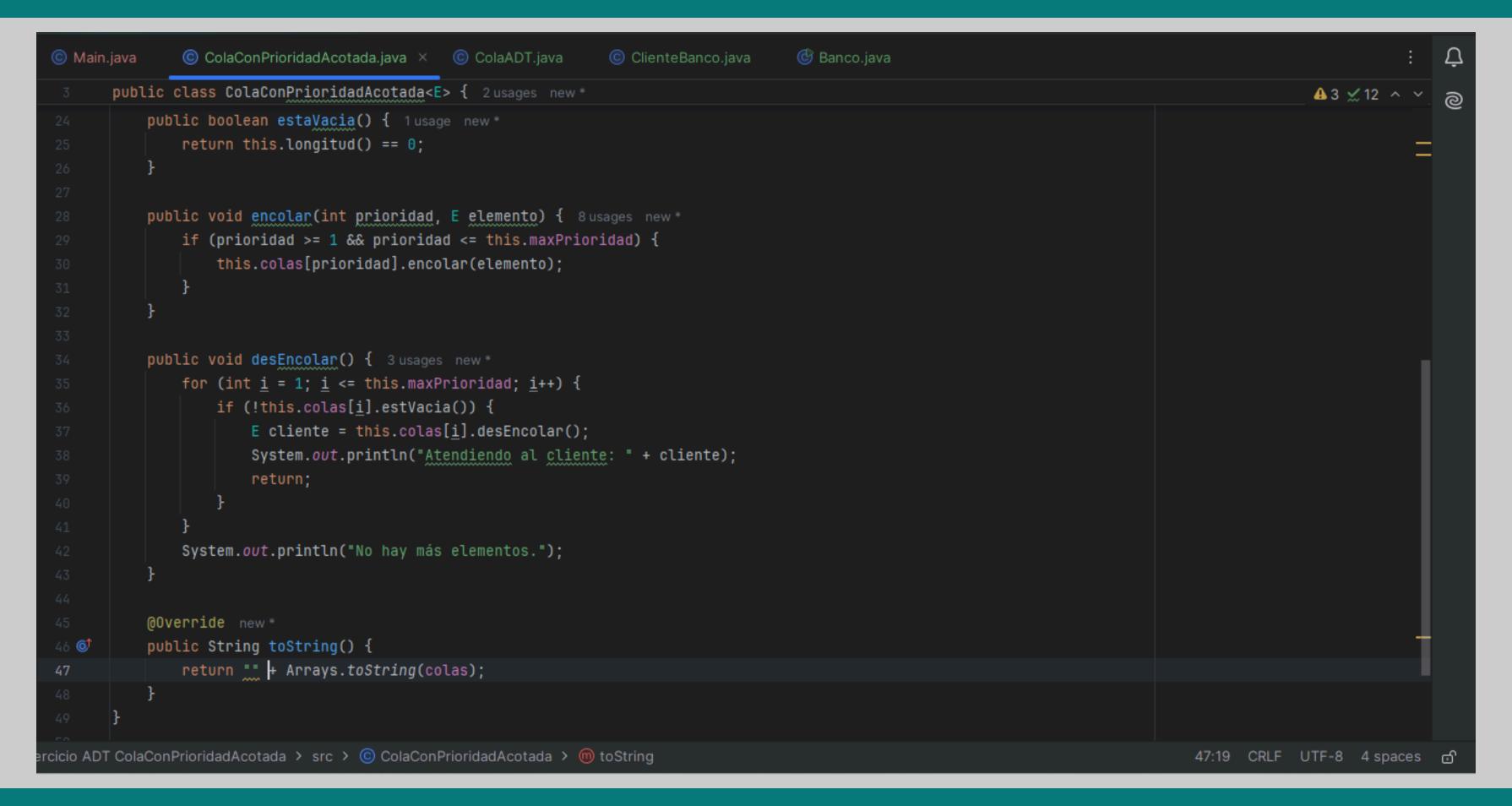






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Main.java
                 © ColaConPrioridadAcotada.java × © ColaADT.java
                                                                        © ClienteBanco.java
                                                                                                 @ Banco.java
        import java.util.Arrays;
                                                                                                                                                                   A3 ± 12 ^ ∨
        public class ColaConPrioridadAcotada<E> { 2 usages new *
            private ColaADT<E>[] colas; 7 usages
            private int maxPrioridad; 5 usages
            @SuppressWarnings("unchecked") 1 usage new *
            public ColaConPrioridadAcotada(int maxPrioridad) 
                 this.maxPrioridad = maxPrioridad;
                 this.colas = new ColaADT[maxPrioridad + 1];
                 for (int \underline{i} = 0; \underline{i} < \text{this.maxPrioridad} + 1; \underline{i} + +) {
                     this.colas[i] = new ColaADT<>();
            public int longitud() { 1usage new*
                 int total = 0;
                 for (int \underline{i} = 0; \underline{i} < \text{maxPrioridad} + 1; \underline{i} + +) {
                     total += this.colas[i].longitud();
                 return total;
            public boolean estaVacia() { 1usage new*
                 return this.longitud() == 0;
             nublic void encolar(int prioridad F elemento) { Rusages new:
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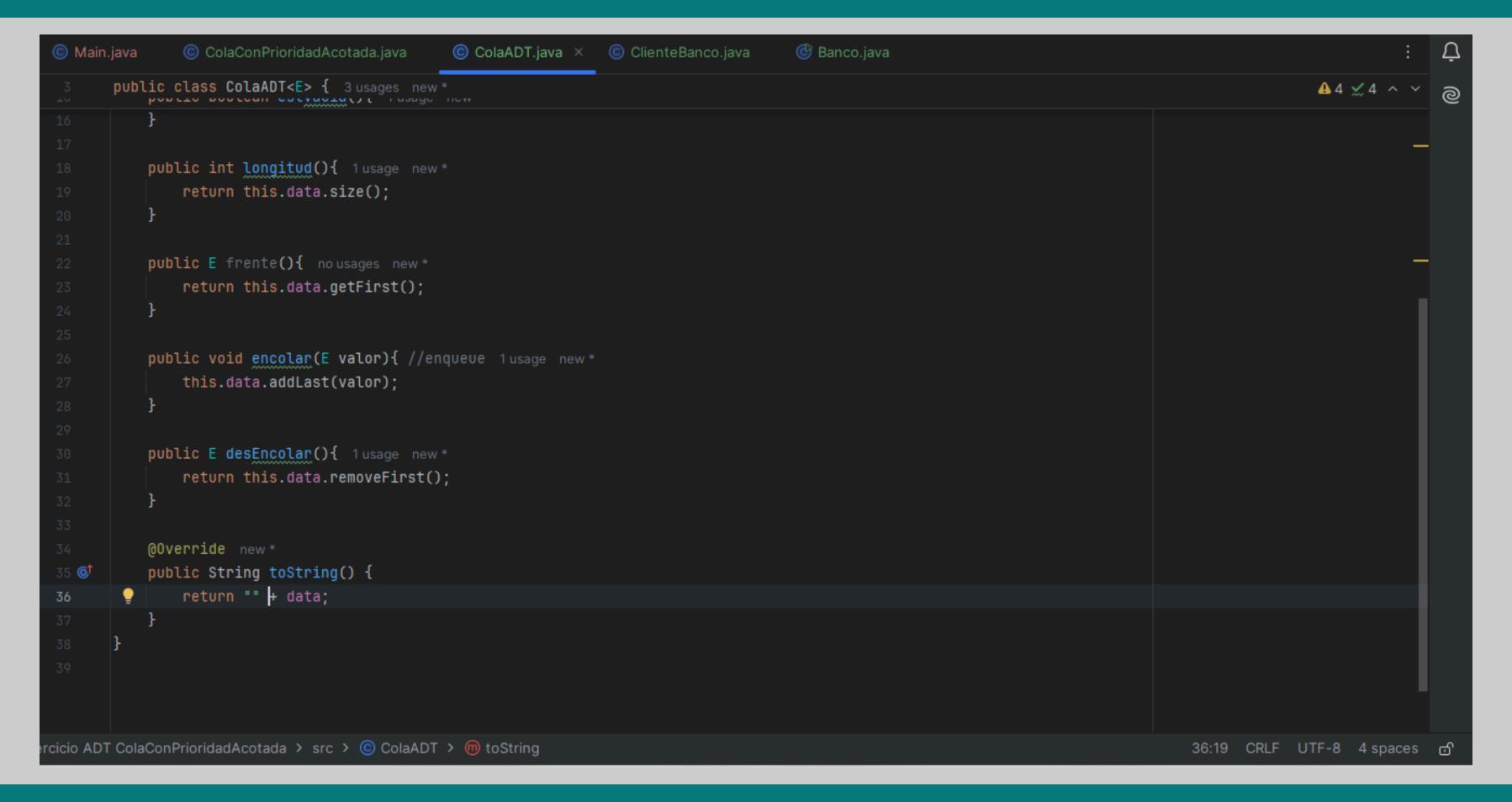
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               © ColaConPrioridadAcotada.java
                                                                   © ClienteBanco.java
                                                © ColaADT.java ×
       import java.util.LinkedList;
                                                                                                                                                        A4 ×4 ^ ~
       public class ColaADT<E> { 3 usages new *
           private LinkedList<E> data; 7 usages
           public ColaADT() { 1usage new*
               this.data = new LinkedList<>();
           public boolean estVacia(){ 1usage new*
               boolean <u>res</u> = false;
               if (this.data.size() == 0){
                   <u>res</u> = true;
               return res;
           public int longitud(){ 1usage new*
               return this.data.size();
           public E frente(){ no usages new *
               return this.data.getFirst();
           public void encolar(E valor){ //enqueue 1 usage new*
               this.data.addLast(valor);
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                                                © ColaADT.java
                                                                  © ClienteBanco.java ×
                                                                                        @ Banco.java
       public class ClienteBanco { 17 usages new *
                                                                                                                                                      A 4 ★ 19 ^ ∨
           private String nombre; 5 usages
           private String tipoCliente; 3 usages
           private double saldo; 4 usages
           public ClienteBanco(String nombre, String tipoCliente, double saldo) { 8 usages new *
                this.nombre = nombre;
               this.tipoCliente = tipoCliente;
               this.saldo = saldo;
           public String getNombre() { no usages new *
               return nombre;
           public String getTipoCliente() { no usages new *
               return tipoCliente;
           public void retirar(double cantidad) { 1usage new*
               if (saldo >= cantidad) {
                   saldo -= cantidad;
                   System.out.println(nombre + " retiró $" + cantidad);
               } else {
                   System.out.println(nombre + " no tiene suficiente saldo.");
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       public class ClienteBanco { 17 usages new *
           public ClienteBanco(String nombre, String tipoCliente, double saldo) { 8 usages new *
                this.saldo = saldo;
           public String getNombre() { no usages new *
                return nombre;
           public String getTipoCliente() { no usages new *
                return tipoCliente;
           public void retirar(double cantidad) { 1usage new*
                if (saldo >= cantidad) {
                    saldo -= cantidad;
                   System.out.println(nombre + " retiró $" + cantidad);
                } else {
                   System.out.println(nombre + " no tiene suficiente saldo.");
           @Override new*
            public String toString() {
30 ©
                return nombre +" (" + tipoCliente + ") " + "saldo: " + " (" + saldo + ")";
 31
rcicio ADT ColaConPrioridadAcotada > src > © ClienteBanco > @ toString
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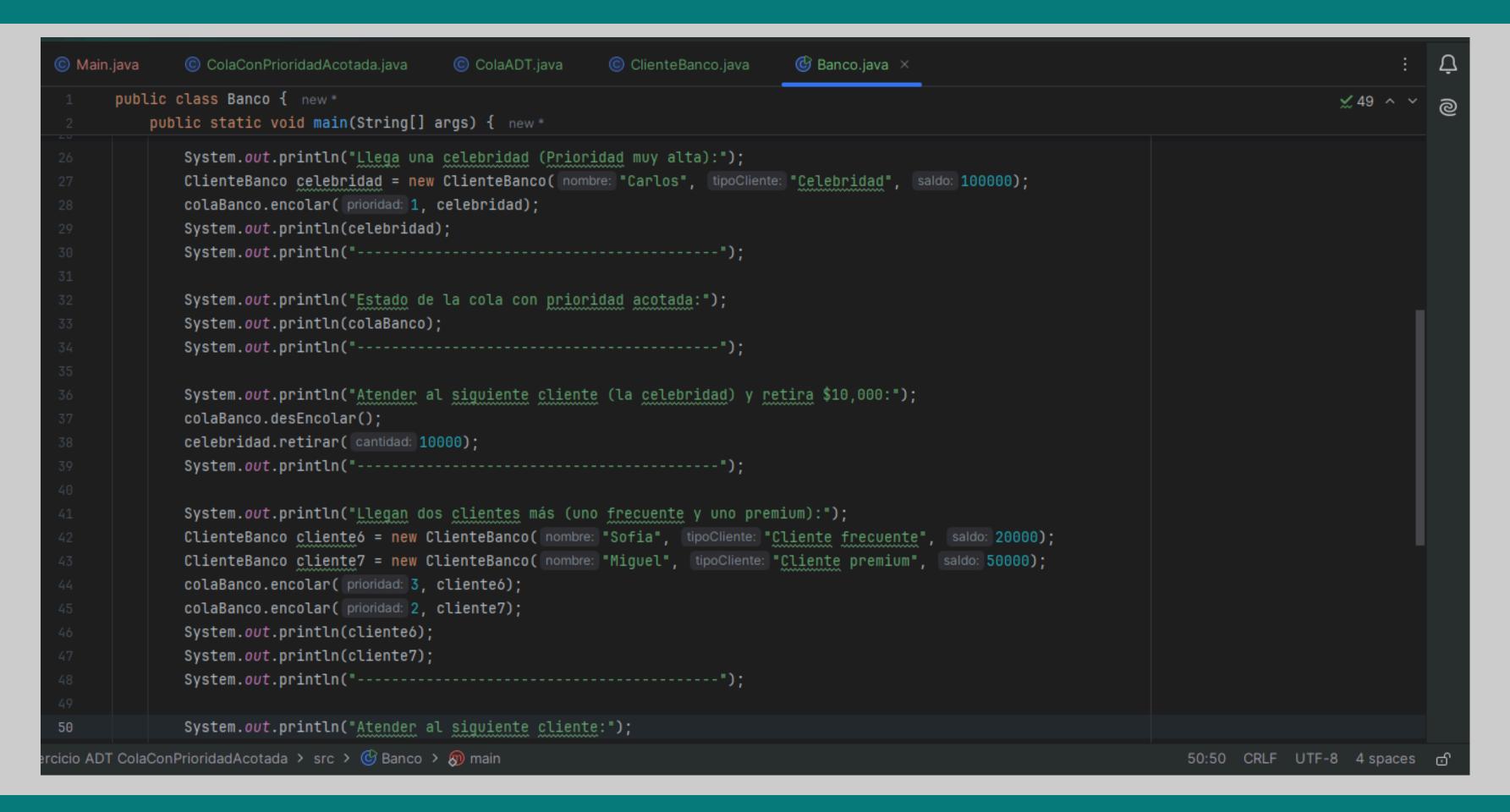
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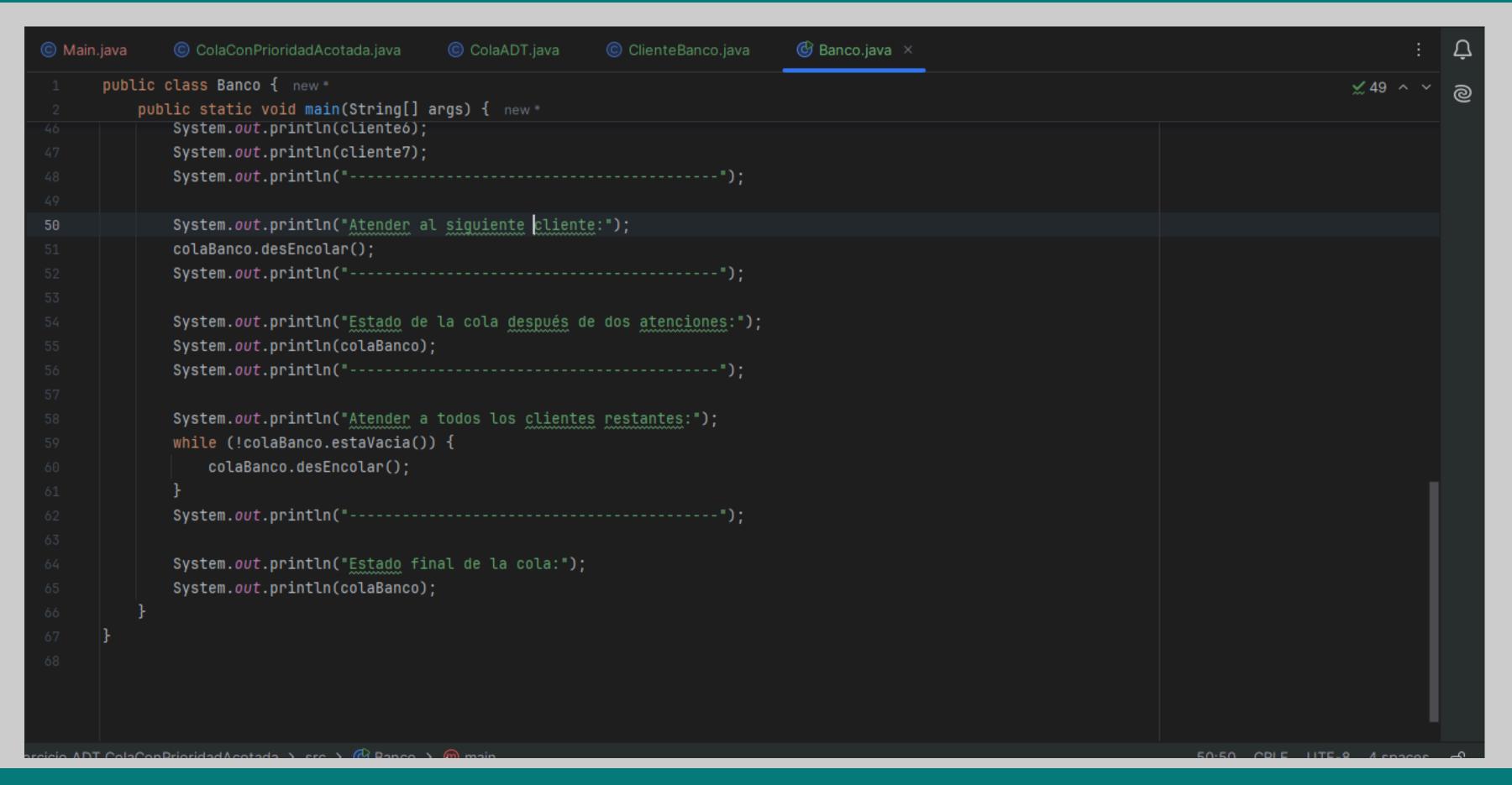
    Banco.java ×

                                              © ColaADT.java
                                                                                                                                                     ±49 ^ Y @
 1 ▶ public class Banco { new*
           public static void main(String[] args) { new*
               ColaConPrioridadAcotada<ClienteBanco> colaBanco = new ColaConPrioridadAcotada<>( maxPrioridad: 5);
               System.out.println("Llegan 2 clientes nuevos (Prioridad baja):");
               ClienteBanco cliente1 = new ClienteBanco( nombre: "Juan", tipoCliente: "Cliente nuevo", saldo: 5000);
               ClienteBanco cliente2 = new ClienteBanco( nombre: "Ana", tipoCliente: "Cliente nuevo", saldo: 7000);
               colaBanco.encolar( prioridad: 4, cliente1);
               colaBanco.encolar( prioridad: 4, cliente2);
               System.out.println(cliente1);
               System.out.println(cliente2);
               System.out.println("----");
               System.out.println("Llegan 3 personas que no son clientes (Prioridad muy baja):");
               ClienteBanco cliente3 = new ClienteBanco( nombre: "Pedro", tipoCliente: "No es cliente", saldo: 0);
               ClienteBanco cliente4 = new ClienteBanco( nombre: "Luis", tipoCliente: "No es cliente", saldo: 0);
               ClienteBanco cliente5 = new ClienteBanco( nombre: "Mario", tipoCliente: "No es cliente", saldo: 0);
               colaBanco.encolar( prioridad: 5, cliente3);
               colaBanco.encolar( prioridad: 5, cliente4);
               colaBanco.encolar( prioridad: 5, cliente5);
               System.out.println(cliente3);
               System.out.println(cliente4);
               System.out.println(cliente5);
               System.out.println("----");
               System.out.println("Llega una celebridad (Prioridad muy alta):");
               ClienteBanco celebridad = new ClienteBanco( nombre: "Carlos", tipoCliente: "Celebridad", saldo: 100000);
               colaBanco encolar( prioridad: 1 celebridad):
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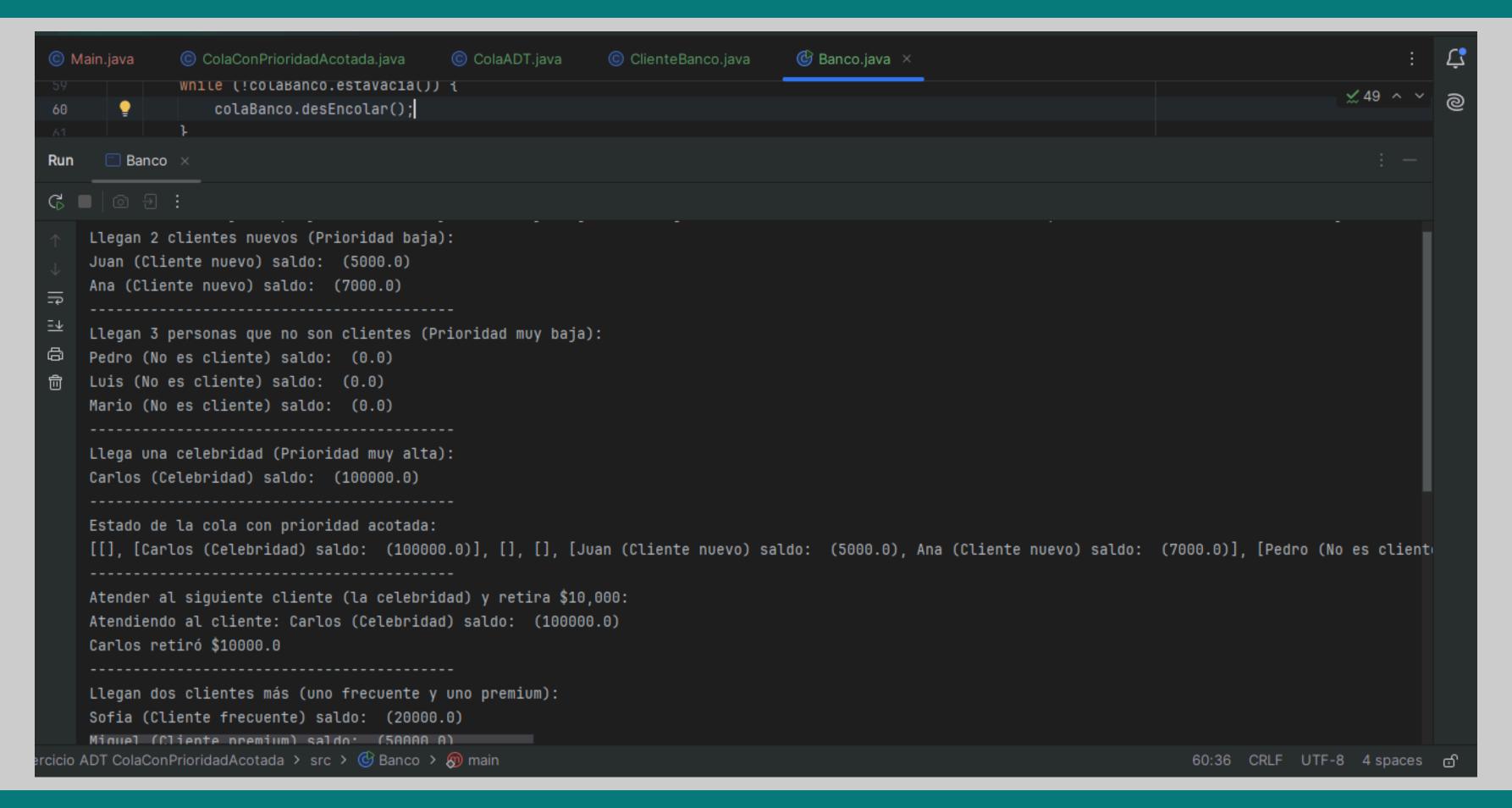
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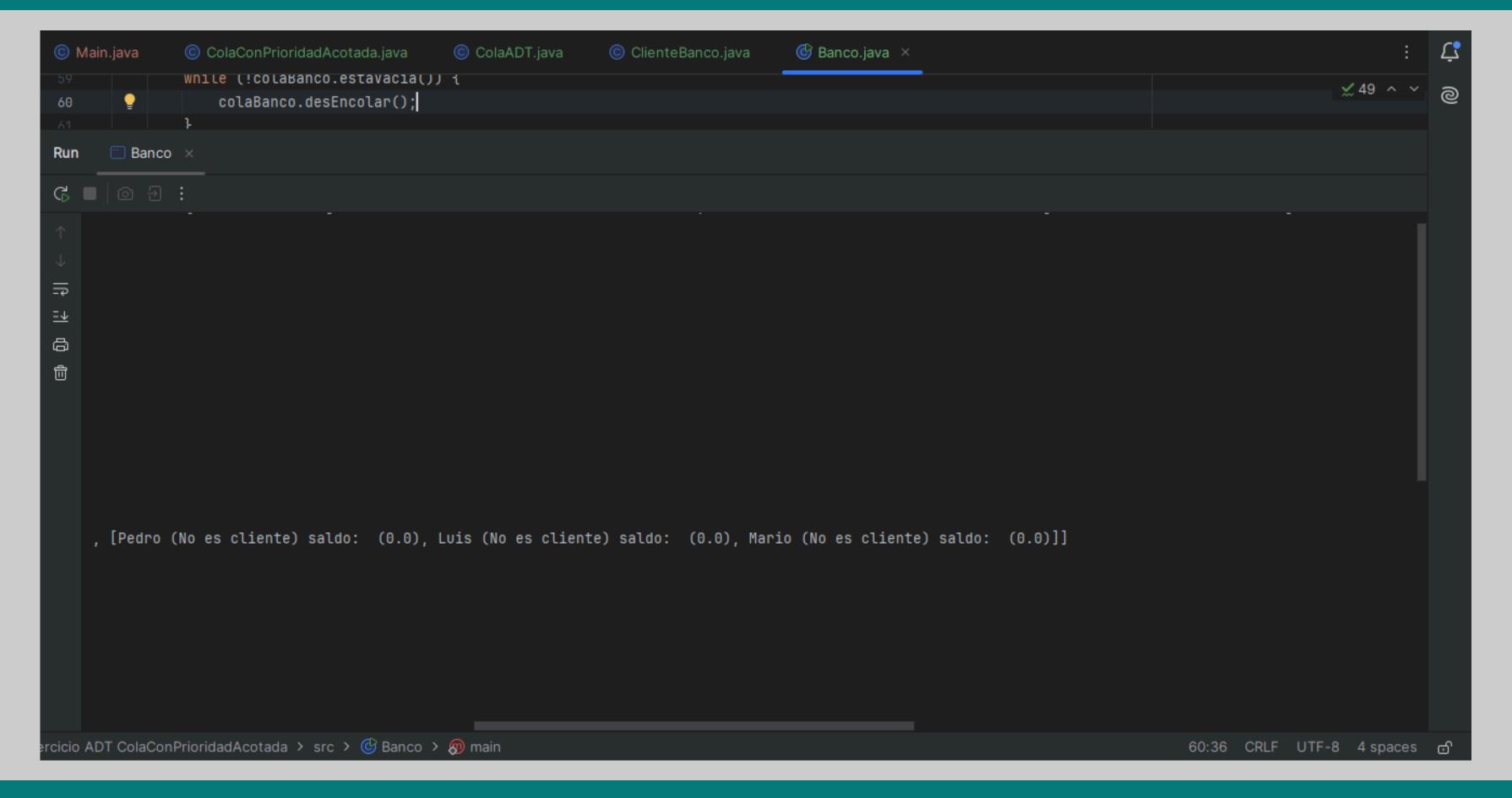
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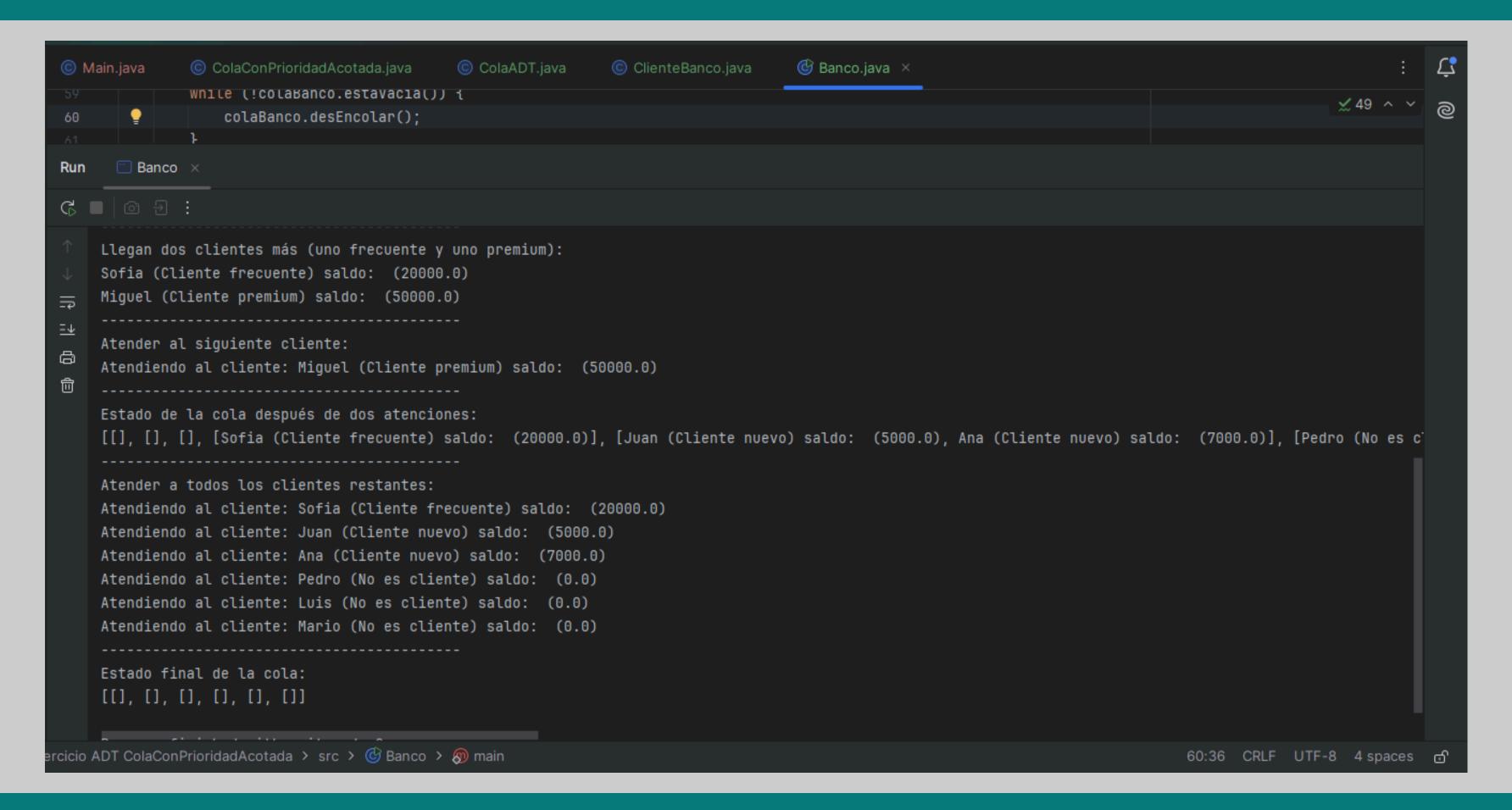
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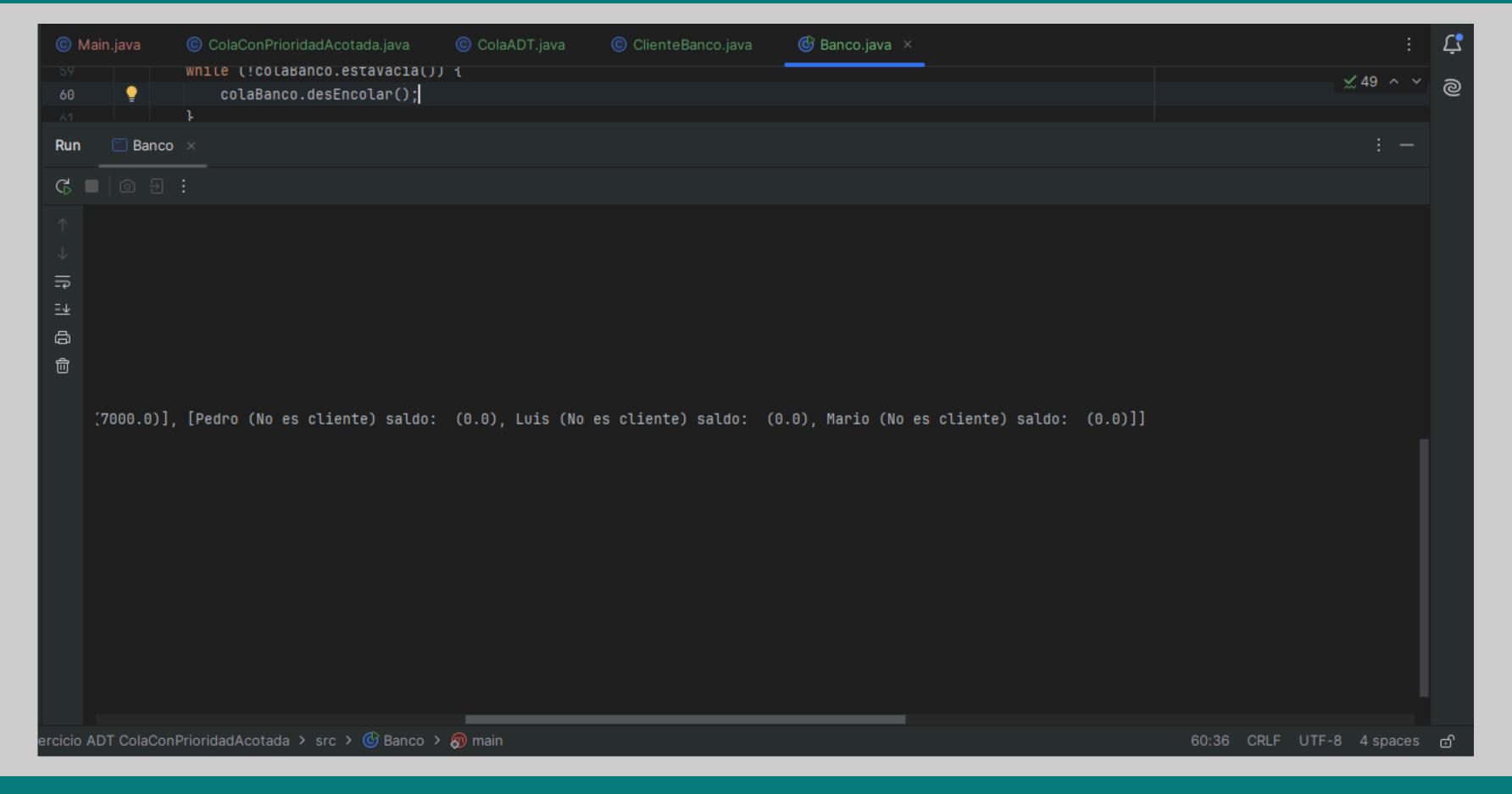
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