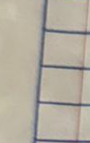
Luis Ovden Jaramillo Guerrero

Ejemplos de prueba BTS

Ejemplo de Prueba 1: Arbol balanceado sencillo

Insertar 50: Sera la raiz

Insertar 30: 30 < 50, va a la izquierda de 50

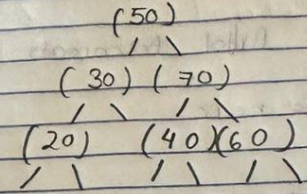


Insertar 70: 70 > 50, va a la derecha de 50

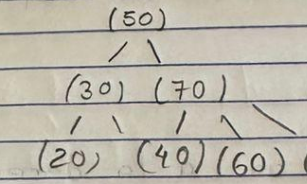
Insertar 20: 20 < 50 (izquierda), 20 < 30 (izquierda). Va a la izquierda de 30

Insertar 40: 40 < 50 (izquierda), 40 > 30 (derecha).

Insertar 60: 60 > 50 derecha, 60 < 70 (izquierda)



Insertar 80: 80 > 50 derecha, 80 > 70 derecha. Va a la derecha

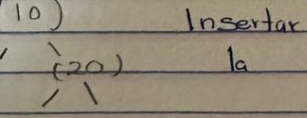


Recorrido Inorden esperado: 20, 30, 40, 50, 60, 70, 80
(Números ordenados)

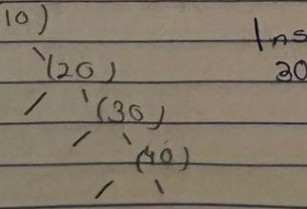
Ejemplo de prueba 2: Árbol Desbalanceado (inclinado a la derecha).

Datos a insertar: [10, 20, 30, 40, 50]

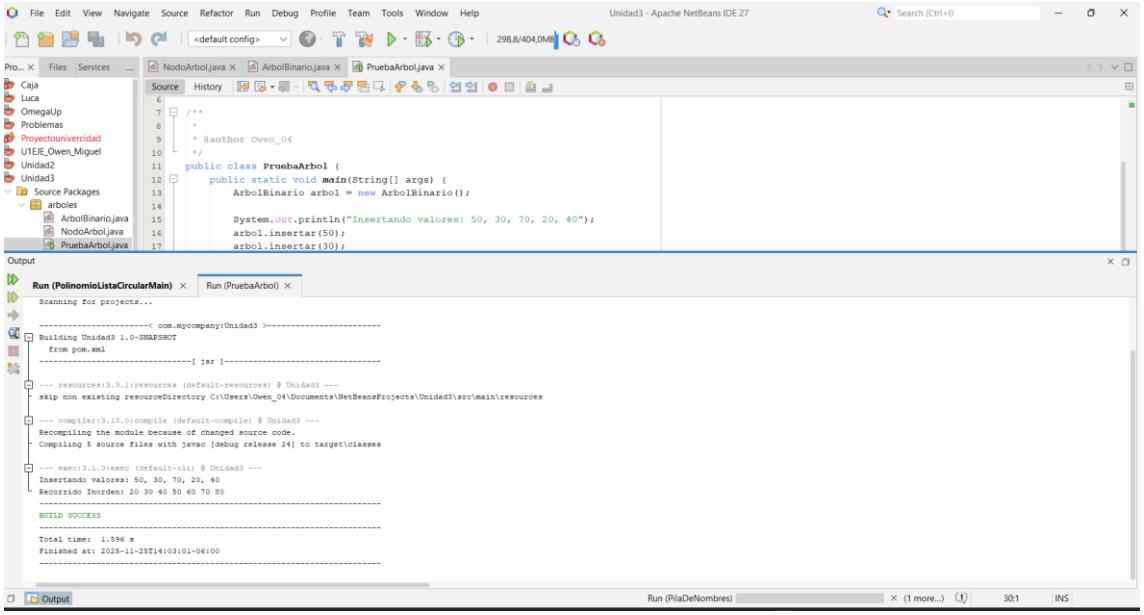
(10) Insertar 10: Raíz



Insertar 20: 20 > 10 va a la derecha



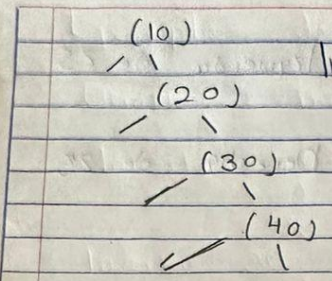
Insertar 30: 30 > 10 (derecha), 30 > 20 (derecha). Va a la derecha de 20.


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Unidad3 - Apache NetBeans IDE 27
Search (Ctrl+I)
<default config>
298,8/404,0MB
Caja
Luca
OmegaUp
Problemas
Proyectouniversidad
U1EIE_Owen_Miguel
Unidad2
Unidad3
Source Packages
arboles
ArbolBinario.java
NodoArbol.java
PruebaArbol.java
NodoArbol.java
ArbolBinario.java
PruebaArbol.java
Source
History
/**
*
* @author Owen_04
*/
public class PruebaArbol {
public static void main(String[] args) {
ArbolBinario arbol = new ArbolBinario();
System.out.println("Insertando valores: 50, 30, 70, 20, 40");
arbol.insertar(50);
arbol.insertar(30);
Output
Run (PolinomioListaCircularMain)
Run (PruebaArbol)
Scanning for projects...
------------------------< com.mycompany:Unidad3 >-------------------------
Building Unidad3 1.0-SNAPSHOT
from pom.xml
--------------------------------[jar]---------------------------------
--- resources:3.3.1:resources (default-resources) @ Unidad3 ---
skip non existing resourceDirectory C:\Users\Owen_04\Documents\NetBeansProjects\Unidad3\src\main\resources
--- compiler:3.13.0:compile (default-compile) @ Unidad3 ---
Recompiling the module because of changed source code.
Compiling 5 source files with javac [debug release 24] to target\classes
--- exec:3.1.0:exec (default-cli) @ Unidad3 ---
Insertando valores: 50, 30, 70, 20, 40
Recorrido Inorden: 20 30 40 50 60 70 80

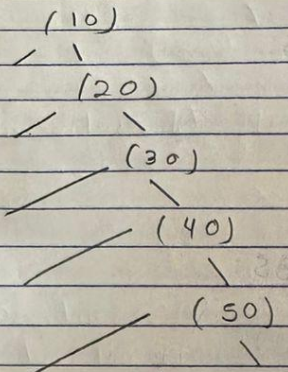
BUILD SUCCESS

Total time: 1.596 s
Finished at: 2025-11-25T14:03:01-06:00

Output
Run (PilaDeNombres)
(1 more...)
30:1
INS



Insertar 40: 40 > 10 (derecha)
va a la derecha de 30



Inserta 50: Va a la derecha de 40

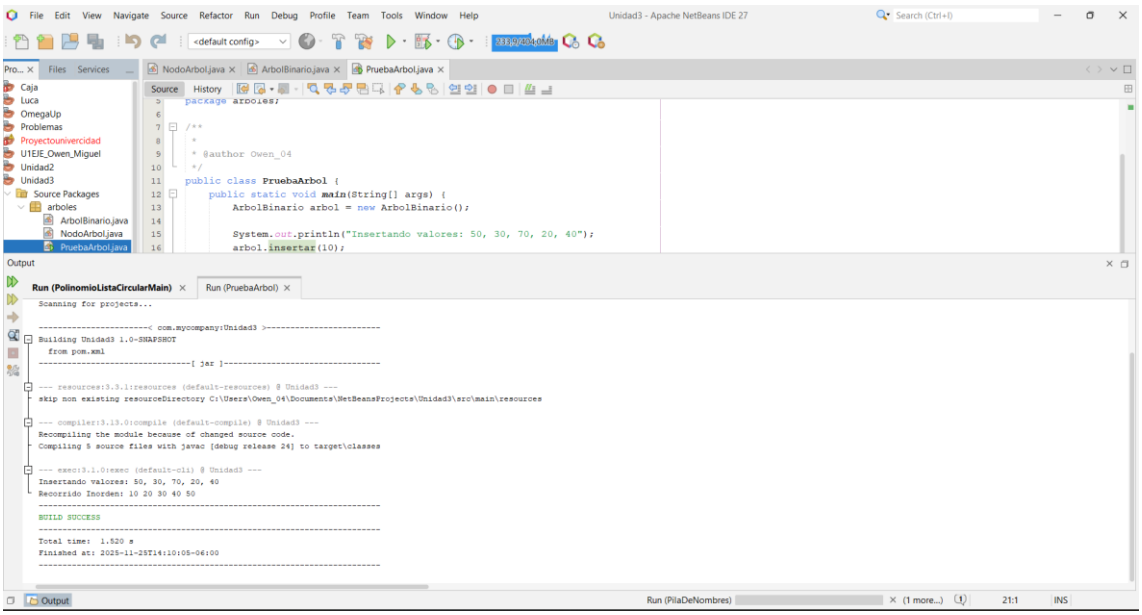
Recorrido Inorden Esperado: 10, 20, 30, 40, 50

Datos a Insertar: [45, 25, 75, 15, 35, 65, 85, 5, 18, 30, 38]

(45) Inserta 45 raiz

(45)
(25) Inserta 25: Izquierda de 45

(45)
(25) (75) Inserta 75: Derecha de 45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Search (Ctrl+I)
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Caja
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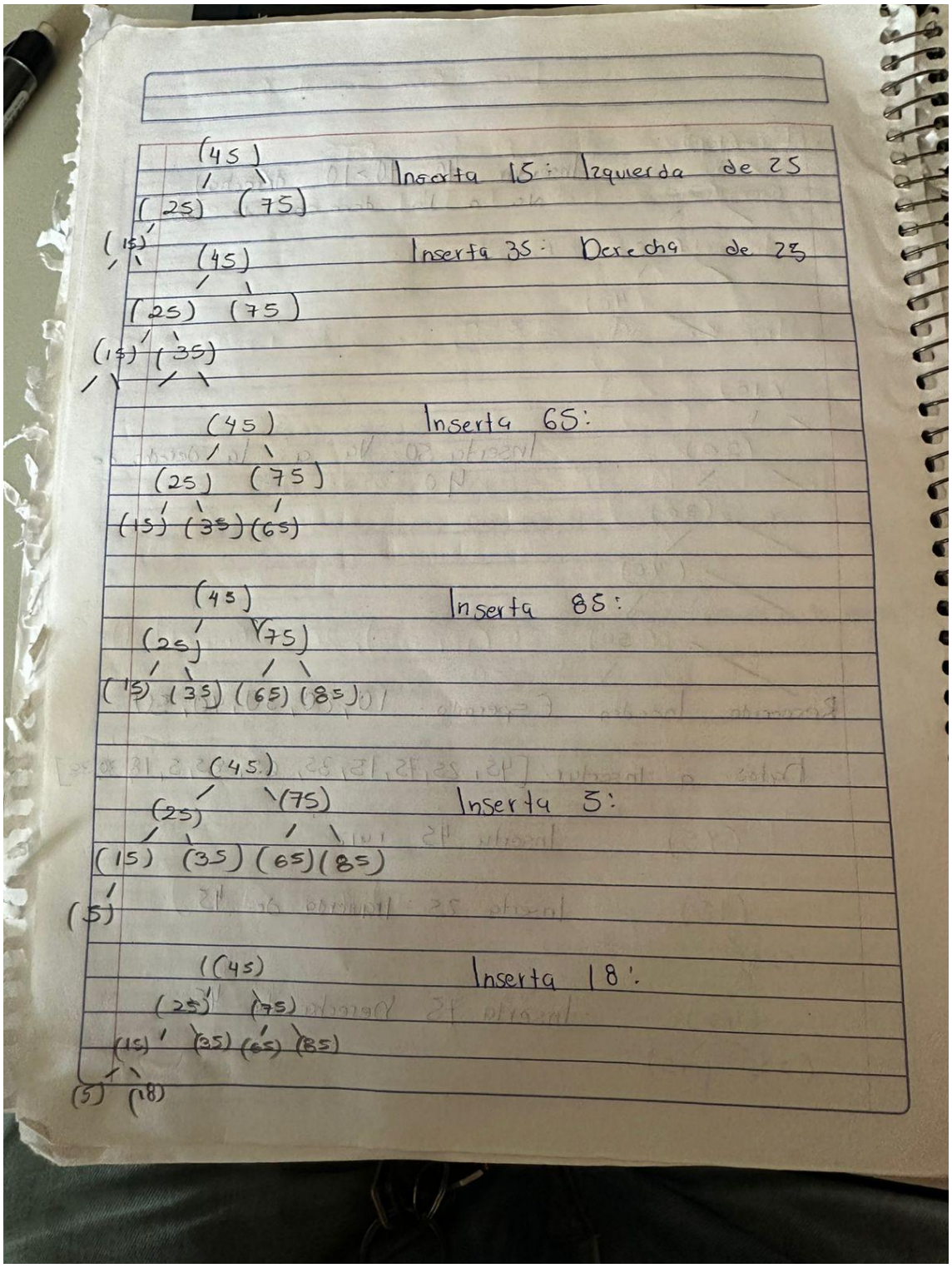
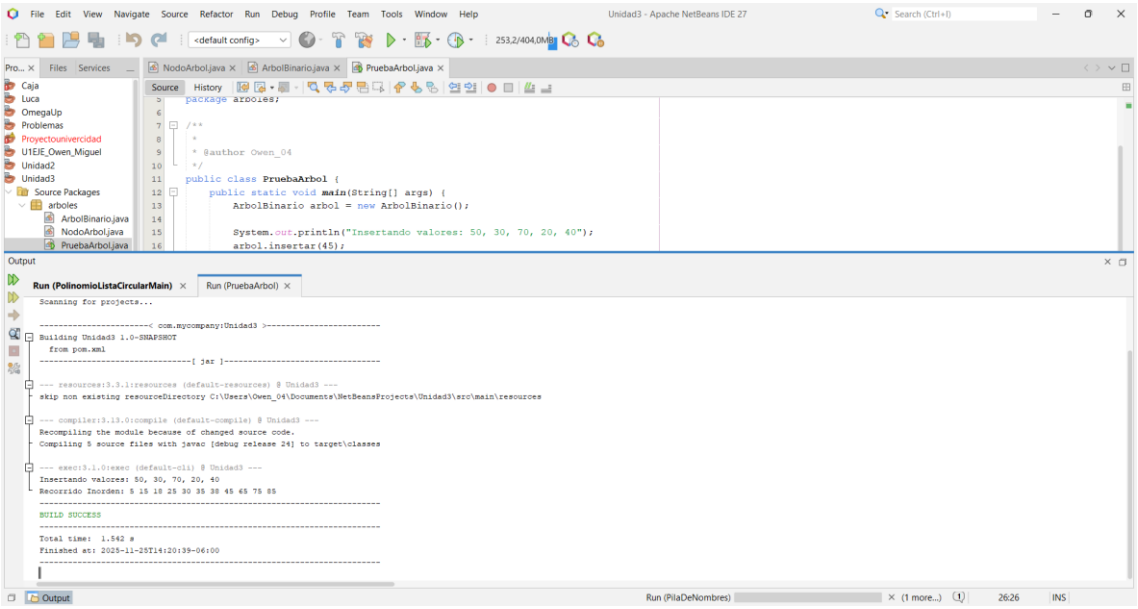
Problemas
Proyectouniversidad
U1EJE_Owen_Miguel
Unidad2
Unidad3
Source Packages
arboles
ArbolBinario.java
NodoArbol.java
PruebaArbol.java
NodoArbol.java
ArbolBinario.java
PruebaArbol.java
Source History
package arboles;
/**
*
* @author Owen_04
*/
public class PruebaArbol {
public static void main(String[] args) {
ArbolBinario arbol = new ArbolBinario();
System.out.println("Insertando valores: 50, 30, 70, 20, 40");
arbol.insertar(10);
Output
Run (PolinomioListaCircularMain)
Run (PruebaArbol)
Scanning for projects...
< com.mycompany:Unidad3 >
Building Unidad3 1.0-SNAPSHOT
from pom.xml
[jar]
--- resources:3.3.1:resources (default-resources) @ Unidad3 ---
skip non existing resourceDirectory C:\Users\Owen_04\Documents\NetBeansProjects\Unidad3\src\main\resources
--- compiler:3.13.0:compile (default-compile) @ Unidad3 ---
Recompiling the module because of changed source code.
Compiling 5 source files with javac [debug release 24] to target\classes
--- exec:3.1.0:exec (default-cli) @ Unidad3 ---
Insertando valores: 50, 30, 70, 20, 40
Recorrido Inorden: 10 20 30 40 50
BUILD SUCCESS
Total time: 1.520 s
Finished at: 2025-11-25T14:10:05-06:00
Output
Run (PilaDeNombres)
(1 more...)
21:1
INS


(45)
(25) (75)
(15)
Inserta 15: Izquierda de 25
(45)
(25) (75)
(15) (35)
Inserta 35: Derecha de 25
(45)
(25) (75)
(15) (35) (65)
Inserta 65:
(45)
(25) (75)
(15) (35) (65) (85)
Inserta 85:
(45)
(25) (75)
(15) (35) (65) (85)
(5)
Inserta 5:
(45)
(25) (75)
(15) (35) (65) (85)
(5) (18)
Inserta 18:


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Unidad3 - Apache NetBeans IDE 27
Search (Ctrl+I)
<default config>
253,2/404,0M
Pro... Files Services
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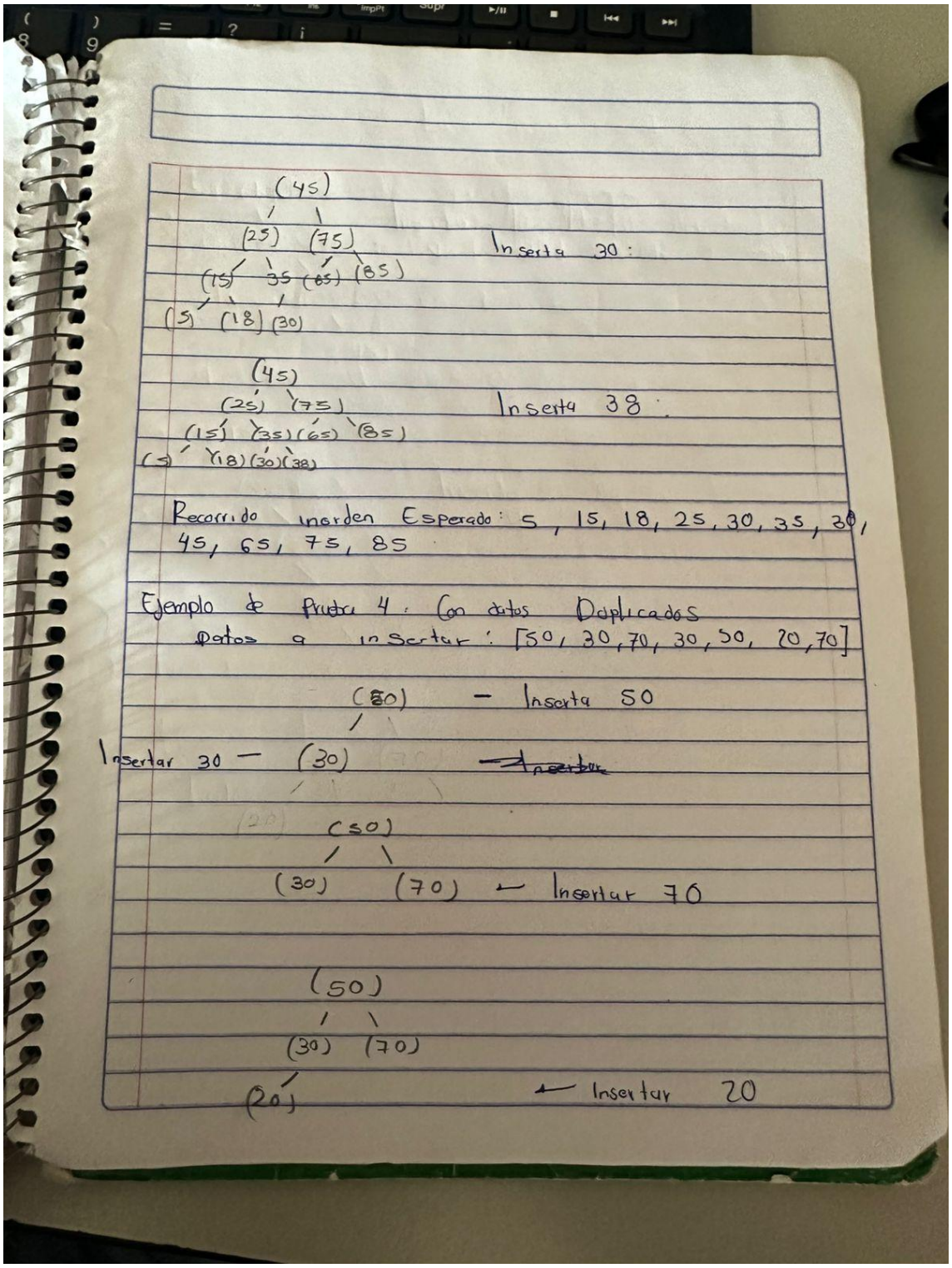
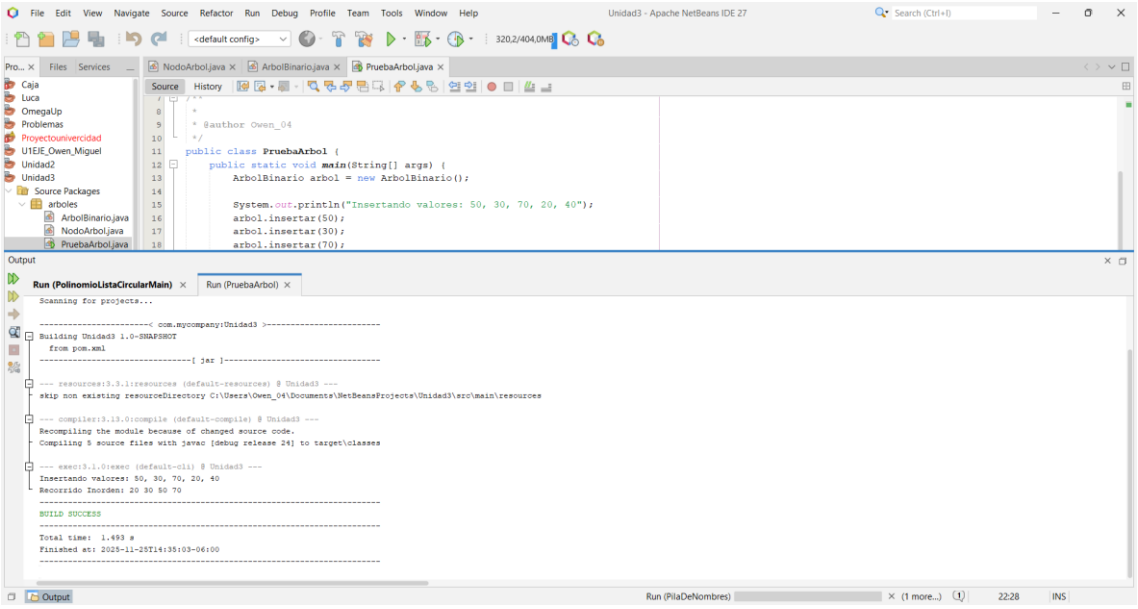
ArbolBinario.java
NodoArbol.java
PruebaArbol.java
NodoArbol.java
ArbolBinario.java
PruebaArbol.java
Source History
package arboles;
/**
*
* @author Owen_04
*/
public class PruebaArbol {
public static void main(String[] args) {
ArbolBinario arbol = new ArbolBinario();
System.out.println("Insertando valores: 50, 30, 70, 20, 40");
arbol.insertar(45);
Output
Run (PolinomioListaCircularMain)
Run (PruebaArbol)
Scanning for projects...
< com.mycompany:Unidad3 >
Building Unidad3 1.0-SNAPSHOT
from pom.xml
[jar]
--- resources:3.3.1:resources (default-resources) @ Unidad3 ---
skip non existing resourceDirectory C:\Users\Owen_04\Documents\NetBeansProjects\Unidad3\src\main\resources
--- compiler:3.13.0:compile (default-compile) @ Unidad3 ---
Recompiling the module because of changed source code.
Compiling 5 source files with javac [debug release 24] to target\classes
--- exec:3.1.0:exec (default-cli) @ Unidad3 ---
Insertando valores: 50, 30, 70, 20, 40
Recorrido Inorden: 5 15 18 25 30 35 38 45 65 75 85
BUILD SUCCESS
Total time: 1.542 s
Finished at: 2025-11-25T14:20:39-06:00
Output
Run (PilaDeNombres)
(1 more...)
26:26
INS


(45)
(25) (75)
(15) 35 (65) (85)
(5) (18) (30)
Inserta 30:
(45)
(25) (75)
(15) (35) (65) (85)
(5) (18) (30) (38)
Inserta 38.
Recorrido inorden Esperado: 5, 15, 18, 25, 30, 35, 38, 45, 65, 75, 85
Ejemplo de Prueba 4: Con datos Duplicados
Datos a insertar: [50, 30, 70, 30, 50, 20, 70]
(50) - Inserta 50
Insertar 30 - (30)
(50)
(30) (70) ← Insertar 70
(50)
(30) (70)
(20)
← Insertar 20


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Unidad3 - Apache NetBeans IDE 27
Search (Ctrl+I)
<default config>
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Unidad2
Unidad3
Source Packages
arboles
ArbolBinario.java
NodoArbol.java
PruebaArbol.java
NodoArbol.java
ArbolBinario.java
PruebaArbol.java
Source
History
/**
*
* @author Owen_04
*/
public class PruebaArbol {
public static void main(String[] args) {
ArbolBinario arbol = new ArbolBinario();
System.out.println("Insertando valores: 50, 30, 70, 20, 40");
arbol.insertar(50);
arbol.insertar(30);
arbol.insertar(70);
Output
Run (PolinomioListaCircularMain)
Run (PruebaArbol)
Scanning for projects...
----------------------< com.mycompany:Unidad3 >-----------------------
Building Unidad3 1.0-SNAPSHOT
from pom.xml
--------------------------------[jar]---------------------------------
--- resources:3.3.1:resources (default-resources) @ Unidad3 ---
skip non existing resourceDirectory C:\Users\Owen_04\Documents\NetBeansProjects\Unidad3\src\main\resources
--- compiler:3.13.0:compile (default-compile) @ Unidad3 ---
Recompiling the module because of changed source code.
Compiling 5 source files with javac [debug release 24] to target\classes
--- exec:3.1.0:exec (default-cli) @ Unidad3 ---
Insertando valores: 50, 30, 70, 20, 40
Recorrido Inorden: 20 30 50 70

BUILD SUCCESS

Total time: 1.493 s
Finished at: 2025-11-25T14:35:03-06:00

Output
Run (PilaDeNombres)
(1 more...)
22:28
INS