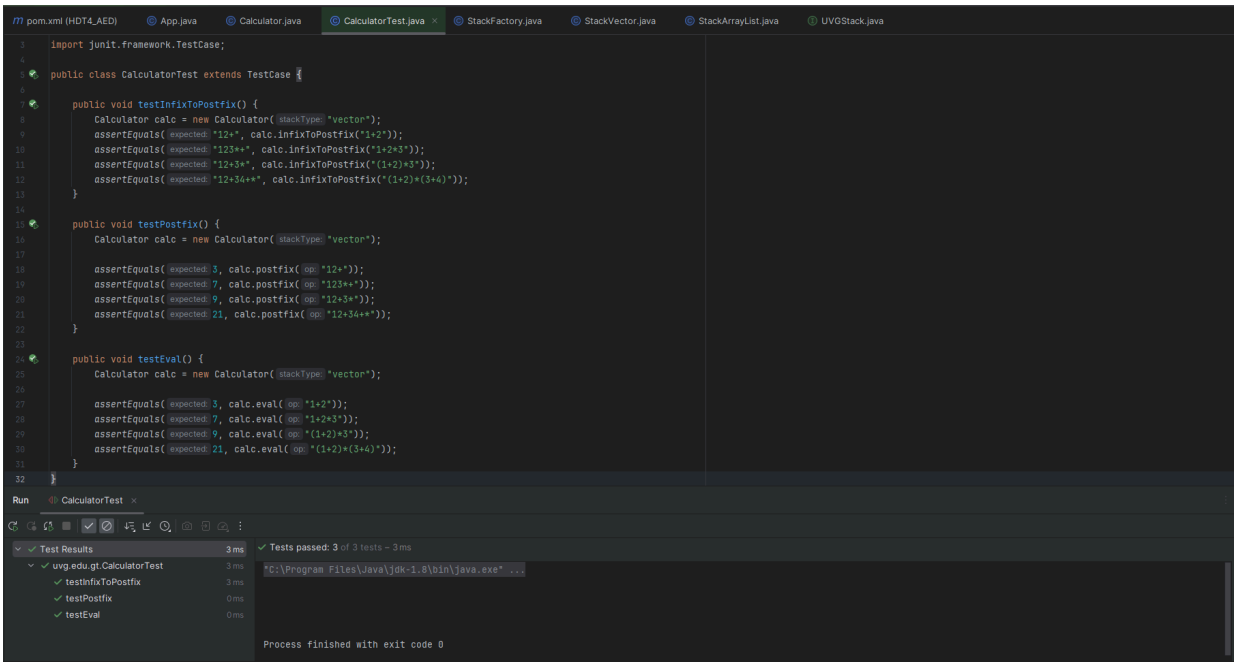
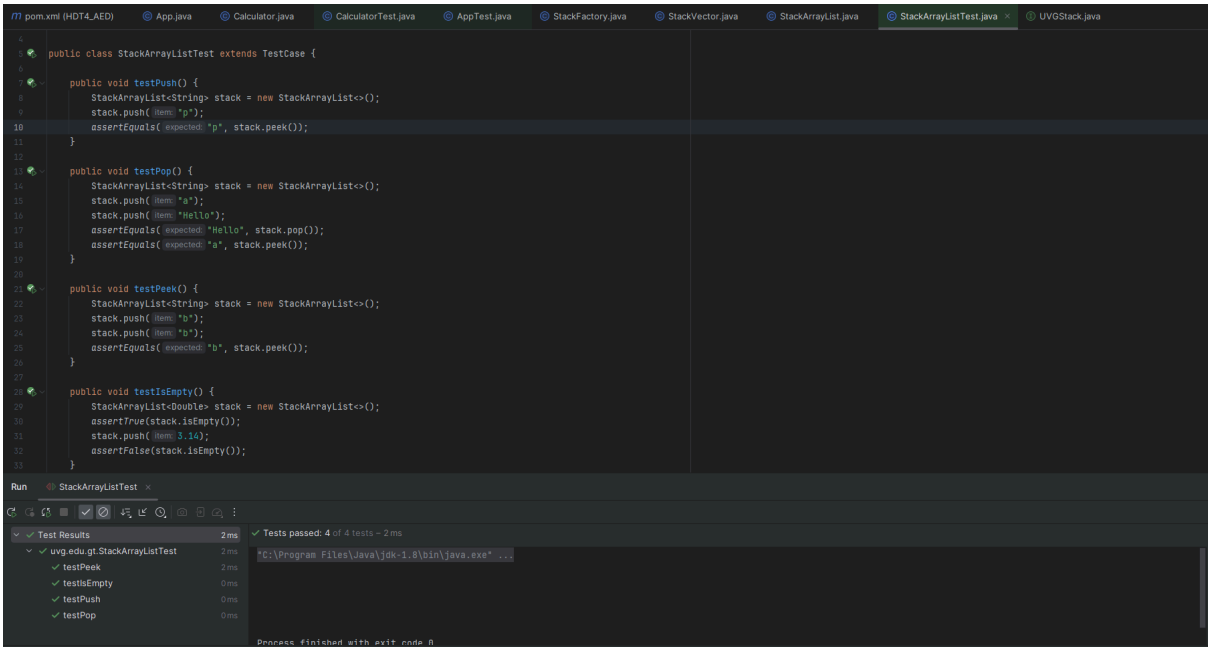
Unit Tests de Calculator



```
import junit.framework.TestCase;

public class CalculatorTest extends TestCase {

    public void testInfixToPostfix() {
        Calculator calc = new Calculator( stackType: "vector");
        assertEquals( expected: "12+", calc.infixToPostfix("1+2"));
        assertEquals( expected: "123*+", calc.infixToPostfix("1+2*3"));
        assertEquals( expected: "12+3*", calc.infixToPostfix("(1+2)*3"));
        assertEquals( expected: "12+34+*", calc.infixToPostfix("(1+2)*(3+4)"));
    }

    public void testPostfix() {
        Calculator calc = new Calculator( stackType: "vector");

        assertEquals( expected: 3, calc.postfix( op: "12+"));
        assertEquals( expected: 7, calc.postfix( op: "123*+"));
        assertEquals( expected: 9, calc.postfix( op: "12+3*"));
        assertEquals( expected: 21, calc.postfix( op: "12+34+*"));
    }

    public void testEval() {
        Calculator calc = new Calculator( stackType: "vector");

        assertEquals( expected: 3, calc.eval( op: "1+2"));
        assertEquals( expected: 7, calc.eval( op: "1+2*3"));
        assertEquals( expected: 9, calc.eval( op: "(1+2)*3"));
        assertEquals( expected: 21, calc.eval( op: "(1+2)*(3+4)"));
    }
}
```

```
Run  CalculatorTest
Test Results 3 ms
uvg.edu.gt.CalculatorTest 3 ms
testInfixToPostfix 3 ms
testPostfix 0 ms
testEval 0 ms
Tests passed: 3 of 3 tests – 3 ms
"C:\Program Files\Java\jdk-1.8\bin\java.exe" ...
Process finished with exit code 0
```

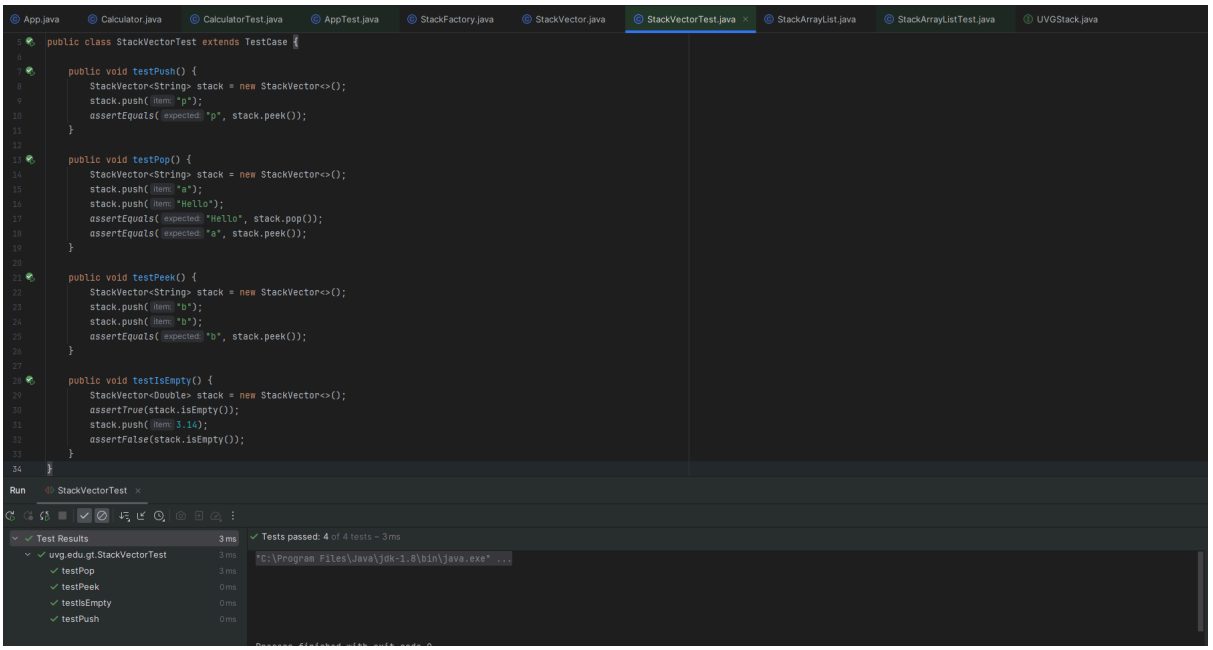
Unit Tests de StackArrayList



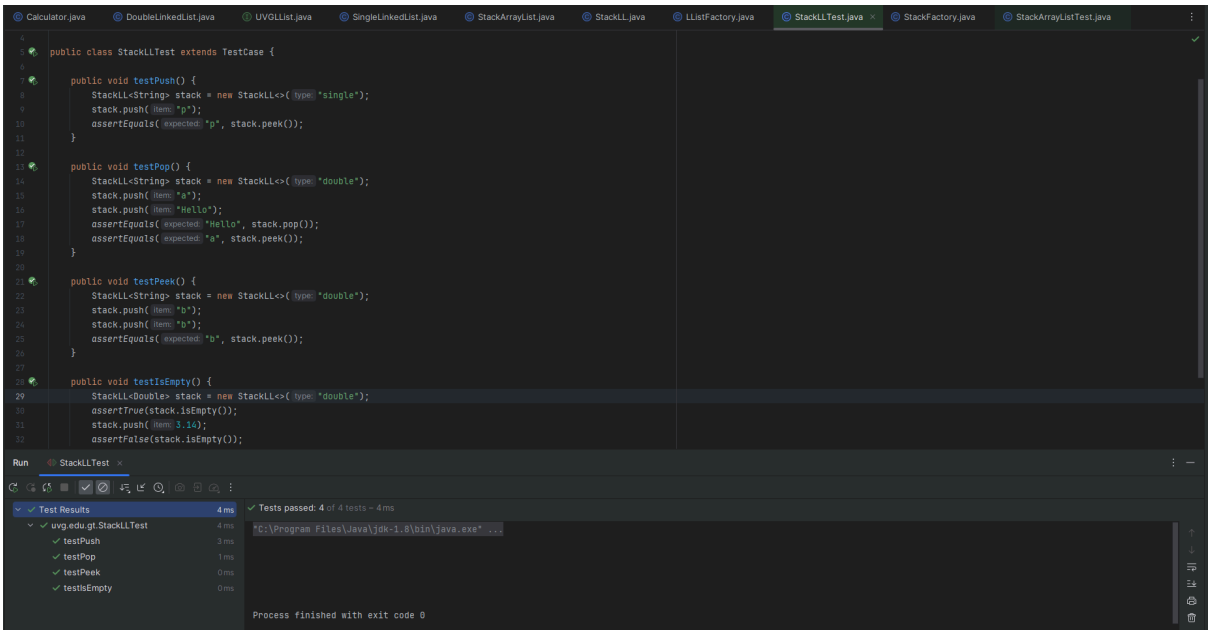
```
public class StackArrayListTest extends TestCase {

    public void testPush() {
        StackArrayList<String> stack = new StackArrayList<>();
        stack.push( item: "p");
        assertEquals( expected: "p", stack.peek());
    }

    public void testPop() {
        StackArrayList<String> stack = new StackArrayList<>();
        stack.push( item: "a");
        stack.push( item: "Hello");
        assertEquals( expected: "Hello", stack.pop());
        assertEquals( expected: "a", stack.peek());
    }

    public void testPeek() {
        StackArrayList<String> stack = new StackArrayList<>();
        stack.push( item: "b");
        stack.push( item: "b");
        assertEquals( expected: "b", stack.peek());
    }

    public void testIsEmpty() {
        StackArrayList<Double> stack = new StackArrayList<>();
        assertTrue(stack.isEmpty());
        stack.push( item: 3.14);
        assertFalse(stack.isEmpty());
    }
```

```
Run  StackArrayListTest
Test Results 2 ms
uvg.edu.gt.StackArrayListTest 2 ms
testPeek 2 ms
testIsEmpty 0 ms
testPush 0 ms
testPop 0 ms
Tests passed: 4 of 4 tests – 2 ms
"C:\Program Files\Java\jdk-1.8\bin\java.exe" ...
Process finished with exit code 0
```

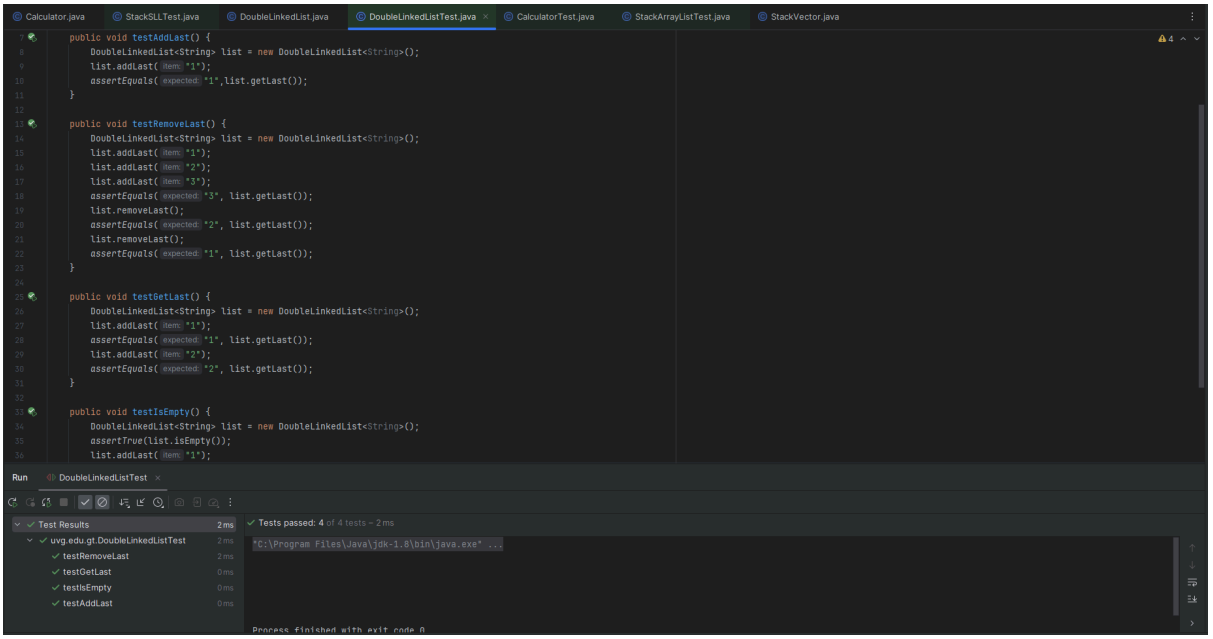
Unit Tests de StackVector



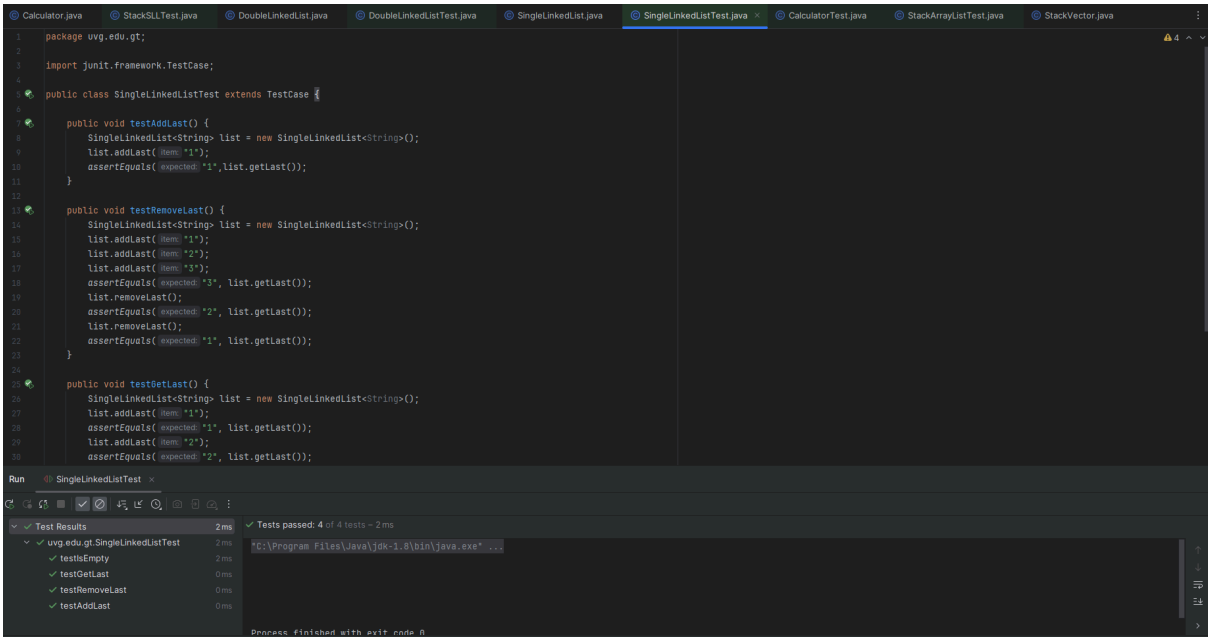
Unit Tests de StackLL



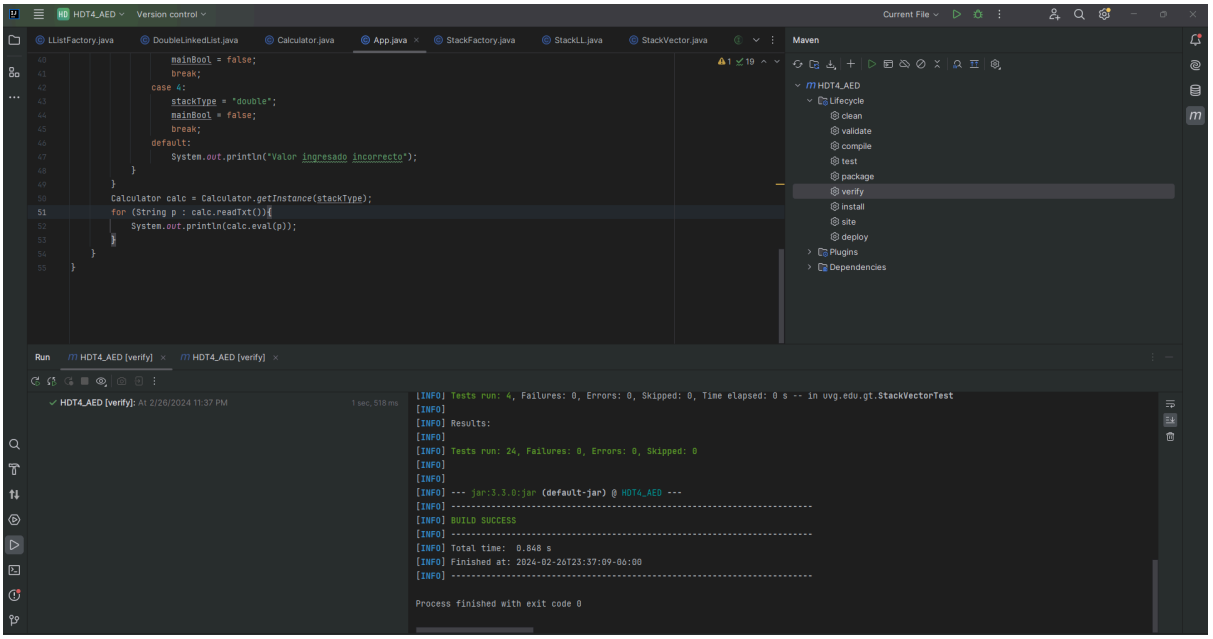
Unit Test de Double Linked List



Unit Test de Single Linked List



Tests Run 24, 24 successes


HDT4_AED
Version control
Current File
LListFactory.java
DoubleLinkedList.java
Calculator.java
App.java
StackFactory.java
StackLL.java
StackVector.java
mainBool = false;
break;
case 4:
stackType = "double";
mainBool = false;
break;
default:
System.out.println("Valor ingresado incorrecto");
}
}
Calculator calc = Calculator.getInstance(stackType);
for (String p : calc.readTxt()){
System.out.println(calc.eval(p));
}
}
}
Maven
HDT4_AED
Lifecycle
clean
validate
compile
test
package
verify
install
site
deploy
Plugins
Dependencies
Run
HDT4_AED [verify]
HDT4_AED [verify]
HDT4_AED [verify]: At 2/26/2024 11:37 PM
1 sec, 518 ms
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s -- in uvg.edu.gt.StackVectorTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 24, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jar:3.3.0:jar (default-jar) @ HDT4_AED ---
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 0.848 s
[INFO] Finished at: 2024-02-26T23:37:09-06:00
[INFO] --
Process finished with exit code 0