

DIAGRAMAS

Diagrama de clases UML

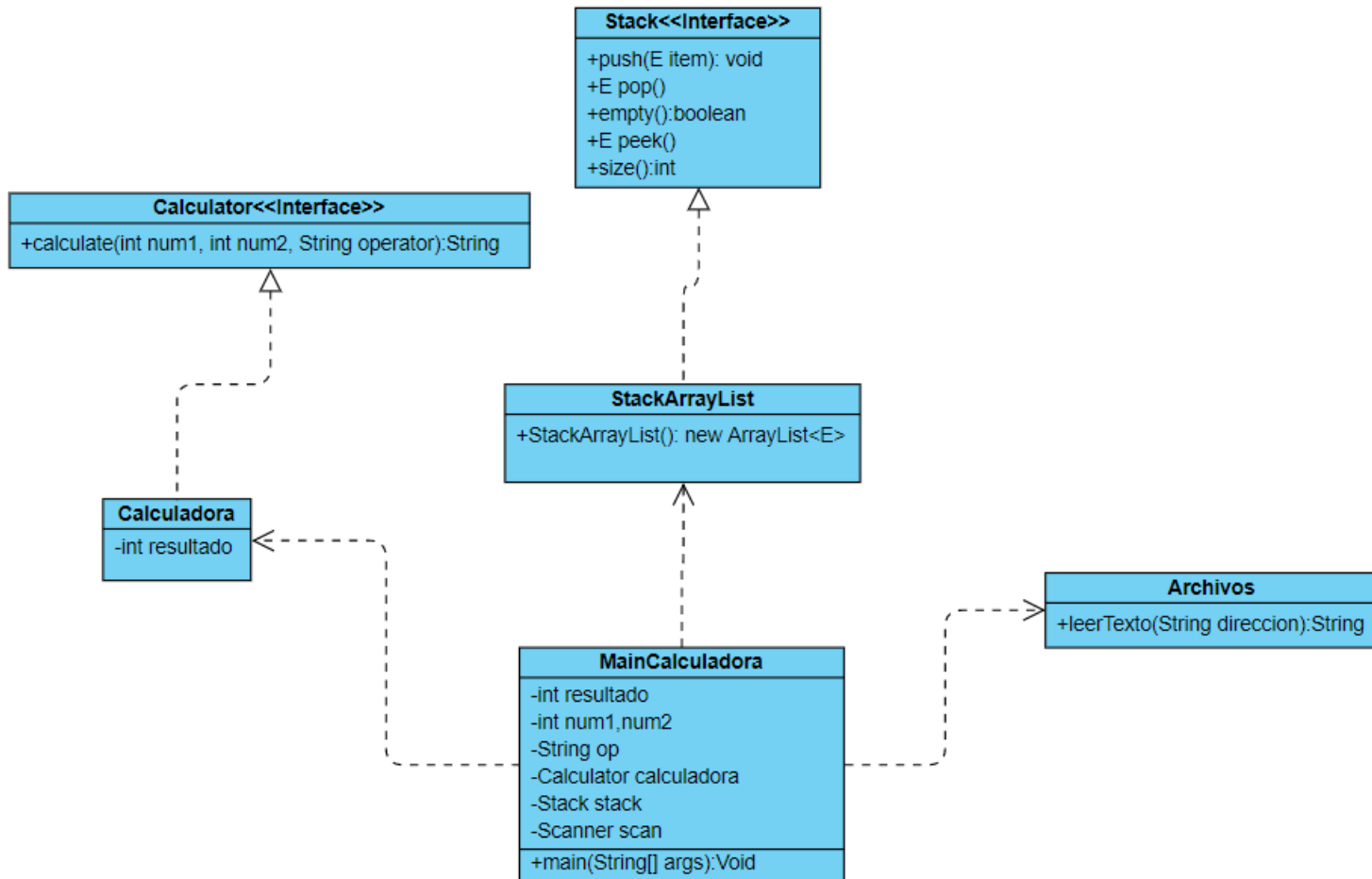
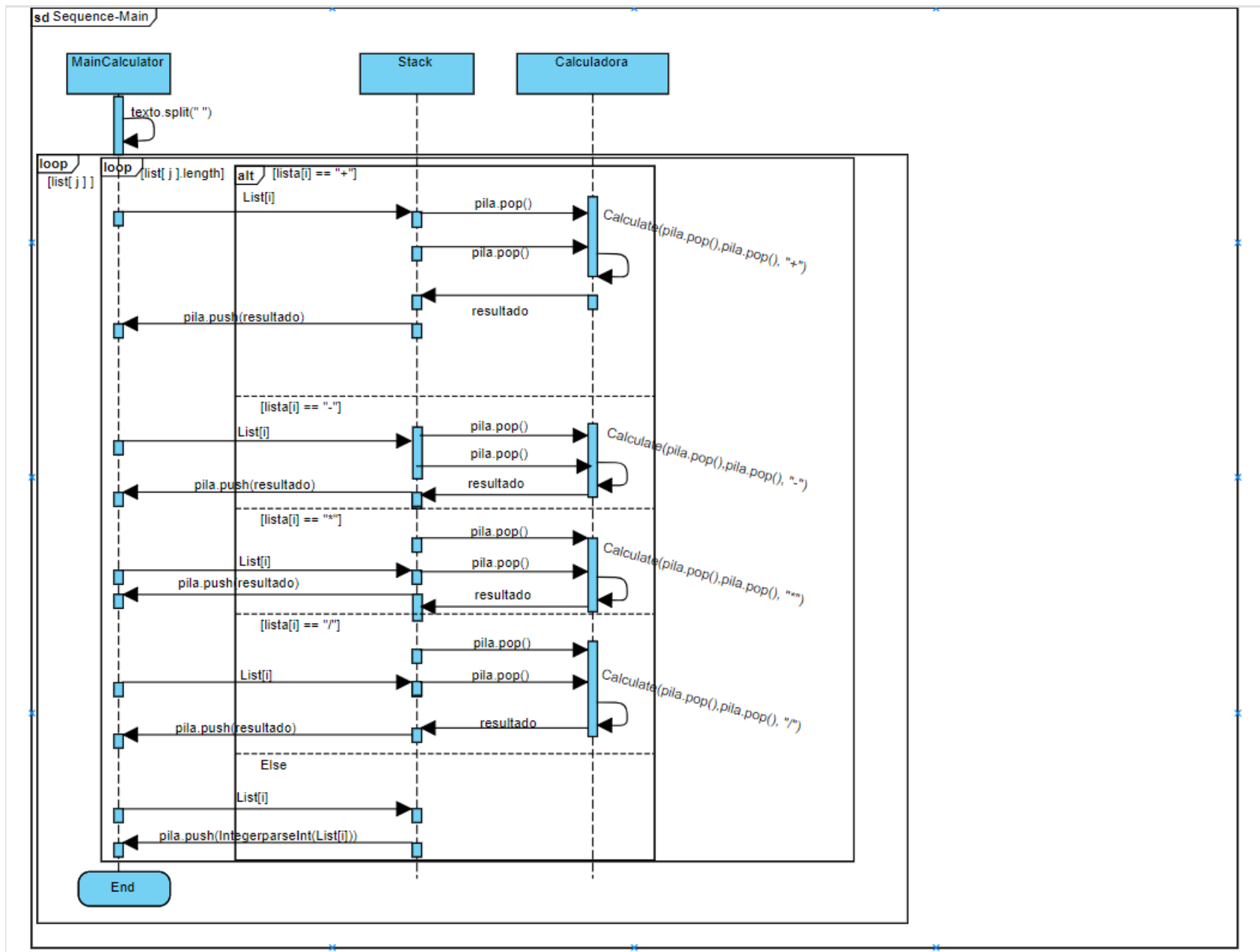


Diagrama de secuencia UML 2



PRUEBAS UNITARIAS JUNIT

Calculadora - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

Projects MainCalculadora.java x Calculadora.java x StackArrayList.java x Calculator.java x Stack.java x Archivos.java x MainCalculadoraTest.java x CalculadoraTest.java x

```
44 //Se crea la clase testCalculate para hacer una prueba unitaria
45 //con los metodos de la clase Calculadora
46 public void testCalculate() {
47     System.out.println("Calculate");
48     //Se ingresan los valores que queremos probar
49     int num1 = 2;
50     int num2 = 19;
51     String op = "*";
52
53     //Se instancia la clase calculadora para poder acceder al metodo Calculate
54     Calculadora instance = new Calculadora();
55
56     //Se ingresa el resultado esperado
57     int expectedResult = 38;
58
59     //Se realiza el metodo Calculate y como parametros van los valores
60     //que nosotros ingresamos al inicio
61     int result = instance.Calculate(num1, num2, op);
62
63     //Compara ambos resultado, el esperado y el real
64     assertEquals(expectedResult, result);
65     // TODO review the generated test code and remove the default call to fail.
66     if (result != expectedResult) {
67         fail("The test case is a prototype.");
68     }
69 }
```

Test Results

Calculadora x calculadora.CalculadoraTest x

Tests passed: 100.00 %

The test passed. (0.066 s)

Calculate

Output Test Results

65:57 20:47 1/02/2019 ENG

Projects x MainCalculadora.java x Calculadora.java x StackArrayList.java x Calculator.java x Stack.java x Archivos.java x MainCalculadoraTest.java x CalculadoraTest.java x StackArrayListTest.java x

Source History

```
53
54
55
56
57
58
59
60 /**
61  * Test of pop method, of class StackArrayList.
62  */
63 @Test
64 public void testPop() {
65     System.out.println("pop");
66     StackArrayList instance = new StackArrayList();
67     Object expResult = 1;
68     Object result = instance.pop();
69     assertEquals(expResult, result);
70     // TODO review the generated test code and remove the default call to fail.
71     if (result != expResult){
72         fail("The test case is a prototype.");
73     }
74 }
75
76
```

Test Results x

calculadora.StackArrayListTest x

Tests passed: 0.00 %

No test passed, 1 test caused an error. (0.085 s)

pop

Output

58:5 INS

Projects × MainCalculadora.java × Calculadora.java × StackArrayList.java × Calculator.java × Stack.java × Archivos.java × MainCalculadoraTest.java × CalculadoraTest.java × StackArrayListTest.java ×

```
Source History
98
99
100
101 /**
102  * Test of size method, of class StackArrayList.
103  */
104
105
106 @Test
107 public void testSize() {
108     System.out.println("size");
109     StackArrayList instance = new StackArrayList();
110     int expResult = 0;
111     int result = instance.size();
112     assertEquals(expResult, result);
113     // TODO review the generated test code and remove the default call to fail.
114     if (result != expResult){
115         fail("The test case is a prototype.");
116     }
117 }
118
119
120
121
```

Test Results ×

calculadora.StackArrayListTest ×

Tests passed: 100.00 %

The test passed. (0.06 s)

✓

⚠

✖

⏮

⏭

>>

size

Output Finished building Calculadora (test).

121:5 INS