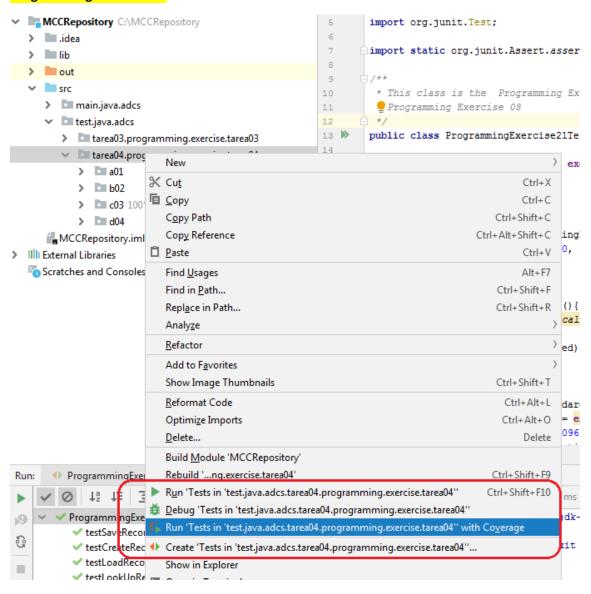
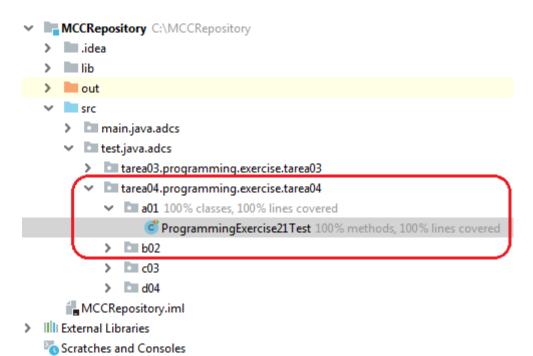
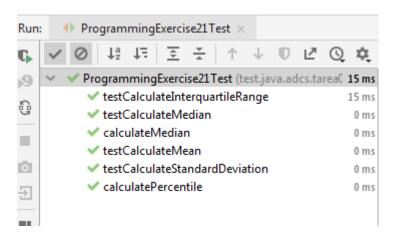


Run	test.java.adcs.tarea04.programming.exercise.tar ×	
G	✓ Ø ↓½ ↓= ∑ ∴ ↑ ↓ □ ₾ Q ¢	
19	tarea04 (test.java.adcs.tarea04.programming.exercise)	218 ms
2	✓ ProgrammingExercise21Test	0 ms
63	testCalculateInterquartileRange	0 ms
	✓ testCalculateMedian	0 ms
_	✓ calculateMedian	0 ms
0	✓ testCalculateMean	0 ms
<b>3</b>	testCalculateStandardDeviation	0 ms
	✓ calculatePercentile	0 ms
===	<ul> <li>ProgrammingExercise22Test</li> </ul>	16 ms
	✓ testToRoman	16 ms
*	✓ testToRomanNegativeNumber	0 ms
	<ul> <li>ProgrammingExercise23Test</li> </ul>	62 ms
	✓ testReadFromFile	31 ms
	✓ testReadFromNotExistingFile	0 ms
	✓ testReadEmptyListFromFile	15 ms
	testReadWrongTextFormatFromFile	16 ms
	<ul> <li>ProgrammingExercise24Test</li> </ul>	140 ms
	✓ testSaveRecordsInFile	125 ms
	✓ testCreateRecord	0 ms
	✓ testLoadRecordsFromFile	15 ms
	✓ testLookUpRecordFromFile	0 ms
	testSearchNotExistingRecordFromFile	0 ms
	testLoadRecordsFromNotExistingFile	0 ms
	✓ testSearchRecordFromFile	0 ms



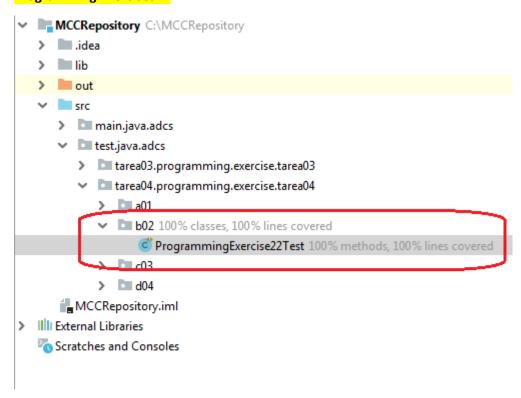


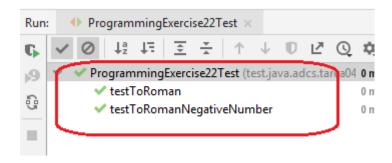
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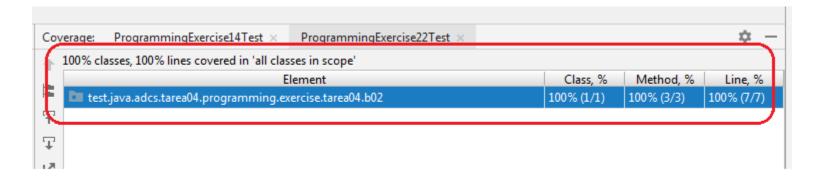
```
ProgrammingExercise21Test.java ×
1
         package test.java.adcs.tarea04.programming.exercise.tarea04.a01;
 2
         import main.java.adcs.tarea01.programming.exercise.h08.ProgrammingExercise08;
 3
 4
         import org.junit.Before;
         import org.junit.Test;
         import static org.junit.Assert.assertEquals;
 6
 7
 8
       _ /**
9
          * This class is the Programming Exercise 21 used to test the
          * Programming Exercise 08
10
11
12
         public class ProgrammingExercise21Test {
13
14
             private ProgrammingExercise08 exercise08;
15
             private Double [] numbers;
16
             @Before
17
18
             public void setup(){
19
                 exercise08 = new ProgrammingExercise08();
20
                 numbers = new Double[]\{1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0\};
21
22
             @Test
23
24
             public void testCalculateMean() {
                 Double mean = exercise08.calculateMean(numbers);
25
26
                 Double expected = 5.5d;
                 assertEquals(mean, expected);
27
28
```

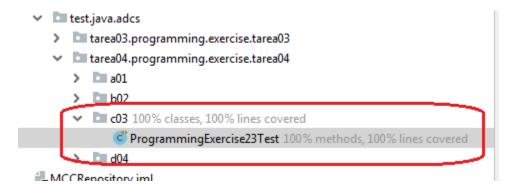
```
ProgrammingExercise21Test.java ×
28
29
             @Test
30
             public void testCalculateStandardDeviation() {
32
                 Double standardDeviation = exercise08.calculateStandardDeviation (numbers);
33
                 Double expected = 2.6076809620810595d;
                 assertEquals(standardDeviation, expected);
34
35
36
             @Test
37
38
             public void testCalculateMedian() {
                 Double median = exercise08.calculateMedian(numbers);
                 Double expected = 5.5d;
40
                 assertEquals(median, expected);
41
42
43
             @Test
44
             public void testCalculateInterquartileRange() {
45
                 Double interquartileRange = exercise08.calculateInterquartileRange(numbers);
46
                 Double expected = 6.0d;
47
48
                 assertEquals(interquartileRange, expected);
49
50
51
             @Test
             public void calculateMedian() {
52
                 Integer median = exercise08.median( | 2, | 6);
53
54
                 Integer expected = 4;
55
                 assertEquals (median, expected);
56
57
```





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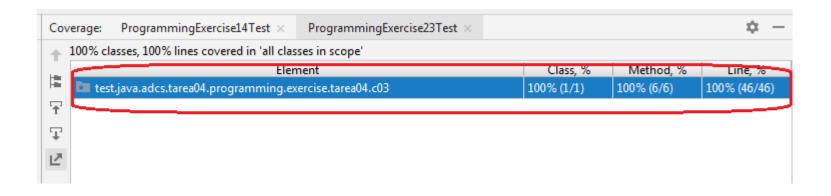


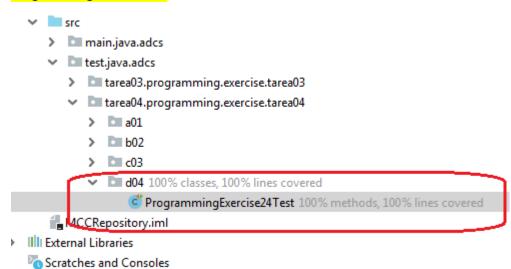


```
ProgrammingExercise23Test.java ×
        package test.java.adcs.tarea04.programming.exercise.tarea04.c03;
 1
 2
 3
        import main.java.adcs.tarea02.programming.exercise.a01.MyPowerList;
 4
        import org.junit.After;
 5
        import org.junit.Before;
 6
        import org.junit.Test;
 7
        import java.io.File;
 8
        import java.io.FileNotFoundException;
 9
        import java.io.IOException;
10
        import java.util.List;
11
        import static org.junit.Assert.assertEquals;
12
13
      - /**
14
         * This class is the Programming Exercise 23 used to test the
         * Programming Exercise 14
15
16
17 🗣
        public class ProgrammingExercise23Test {
18
19
            private MyPowerList list;
20
            private String fileName;
21
22
            @Before
23
            public void setup() {
24
                list = new MyPowerList();
25
                fileName = "C:\\temp\\output.txt";
                new File(fileName).delete();
26
27
28
            @Test(expected = FileNotFoundException.class)
29
30
            public void testReadFromNotExistingFile() throws IOException {
                list.readPeopleFromFile(fileName); }
31
32
```

```
@Test
34
            public void testReadFromFile() throws IOException {
35
                list.add("100");
36
                list.add("101");
                list.add("102");
37
                list.saveToFile();
38
39
                List<String[]> lines = list.readFromFile(fileName);
                String[] record = null;
                for (int i=0; i < lines.size();i++){
41
42
                   record = lines.get(i);
43
                    for(String item :record) {
                        item = item.replace( target: "[", replacement: "").replace( target: "]", replacement: "").trim();
44
45
46
47
                assertEquals(lines.size(), actual: 1);
                assertEquals(record.length, actual: 3);
48
49
51
            @Test
52
            public void testReadWrongTextFormatFromFile() throws IOException {
53
                list.add("a");
                list.add("jfk");
54
55
                list.add("XHGC");
                list.add("8");
                list.saveToFile();
                List<String[]> lines = list.readFromFile(fileName);
58
59
                String[] record = null;
                for(int i=0; i < lines.size();i++){</pre>
60
61
                    record = lines.get(i);
                    for (String item : record) {
62
63
                         item = item.replace( target: "[", replacement: "").replace( target: "]", replacement: "").trim();
64
65
                 assertEquals(lines.size(), actual: 1);
66
67
                 assertEquals(record.length, actual: 4);
68
```

```
69
70
            @Test
            public void testReadEmptyListFromFile() throws IOException {
72
                list.clear();
73
                list.saveToFile();
                List<String[]> lines = list.readFromFile(fileName);
74
75
                String[] record = null;
76
                 for(int i=0; i < lines.size();i++){</pre>
77
                    record = lines.get(i);
78
                    for(String item :record) {
                         item = item.replace( target: "[", replacement: "").replace( target: "]", replacement: "").trim();
79
80
81
82
                 assertEquals(lines.size(), actual: 1);
                assertEquals(record.length, actual: 1);
83
84
85
86
            @After
87
            public void cleanUp() { new File(fileName).delete(); }
90
91
        }
92
```





```
ProgrammingExercise24Test.java
         package test.java.adcs.tarea04.programming.exercise.tarea04.d04;
 3
         import main.java.adcs.tarea02.programming.exercise.a01.MyPowerList;
         import main.java.adcs.tarea02.programming.exercise.f06.Person;
         import org.junit.After;
 5
         import org.junit.Before;
 6
 7
         import org.junit.Test;
         import java.io.File;
 9
         import java.io.FileNotFoundException;
         import java.io.IOException;
         import java.util.List;
12
         import static org.junit.Assert.assertEquals;
13
         import static org.junit.Assert.assertTrue;
14
15
          * This class is the Programming Exercise 24 used to test the
16
17
          * Programming Exercise 15
18
19 😘
         public class ProgrammingExercise24Test {
             private static final String AGENDA ARTISTAS Y ACTRICES CINE MEXICANO = "C:\\temp\\personajesCineMexicano.txt";
21
             MyPowerList<Person> agenda;
22
             @Before
23
24
             public void setup() { agenda = new MyPowerList(); }
27
28
29 G
             public void testCreateRecord() {
                 agenda.add(new Person( name: "Juan Camaney", address: "Calle de la viuda sin numero", phone: "1234567890", email: "juan.camaney@cinedeoro.com.mx"));
30
31
                 agenda.add(new Person( name: "Mauricio Garces", address: "Calle - modisto de señoras copetonas", phone: "9876543210", email: "modisto.de.rucas@eltodasmias.com"));
32
                 assertEquals(agenda.size(), actual: 2);
33
34
```

```
42
43
              @Test
    G.
44
              public void testLoadRecordsFromFile() throws IOException {
45
                  agenda.readPeopleFromFile(AGENDA ARTISTAS Y ACTRICES CINE MEXICANO);
46
47
              @Test(expected = FileNotFoundException.class)
48
    G,
49
              public void testLoadRecordsFromNotExistingFile() throws IOException {
                  agenda.readPeopleFromFile(fileName: "C:\\unknownFile.txt"); }
50
51
52
              @Test
    G.
53
              public void testSearchRecordFromFile() throws IOException {
54
                  agenda.add(new Person( name: "Said Olano", address: "Av Aviacion sin Numero", phone: "9876543210", email: "josesaid@gmail.com"));
55
                  agenda.saveToFile(AGENDA ARTISTAS Y ACTRICES CINE MEXICANO);
                  List<Person> people = agenda.findByName( nameToSearch: "Said Olano");
56
57
                  assertEquals(people.iterator().next().getName(), actual: "Said Olano");
58
59
60
              @Test
61
              public void testSearchNotExistingRecordFromFile() {
62
                  List<Person> people = agenda.findByName ( nameToSearch: "Juana la cubana");
                  assertEquals(people.size(), actual: 0);
63
64
66
           @Test
67 G
           public void testLookUpRecordFromFile() {
               agenda.add(new Person( name: "Mauricio Garces", address: "Calle - modisto de señoras copetonas", phone: "9876543210", email: "modisto.de.rucas@eltodasmias.com"));
68
               List<Person> people = agenda.findByName ( nameToSearch: "Mauricio Garces");
69
               assertEquals(people.get(0).getPhone(), actual: "9876543210");
72
73
            @After
           public void cleanUp() { agenda.clear(); }
78
```

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