```
16
17 /**
18 *
19 * @author ehn19
   public class ExercisesTest {
21
22
23
        Exercises ex = new Exercises();
24
        private ArrayList<Cat> cats;
        private ArrayList<Integer> data;
26
27
        * Test of readFile method, of class Exercises.
         */
28
29
        @org.junit.Test
        public void testReadFile() {
            System.out.println("Read from file");
32
            cats = ex.readFile("Cats.txt");
34
            int exp = 8;
            int result = cats.size();
            assertEquals(exp, result);
        }
40
41
        @Test(expected = IndexOutOfBoundsException.class)
42
        public void testReadWrongFile() {
43
            cats = ex.readFile("Cat.txt");
44
            cats.get(0);
45
        }
46
```

```
/**
         * Test of getOldest method, of class Exercises.
         */
62
        @org.junit.Test
        public void testGetOldest() {
            System.out.println("getOldest");
64
            cats = ex.readFile("Cats.txt");
            String expRes = "Whiskers";
            String res = ex.getOldest(cats);
            assertEquals(expRes, res);
        }
72
        * Test of removeSickCats method, of class Exercises.
         */
74
        @org.junit.Test
        public void testRemoveSickCats() {
            System.out.println("removeSickCats");
            cats = ex.readFile("Cats.txt");
78
            int expBefore = 8;
            assertEquals(expBefore, cats.size());
            ex.removeSickCats(cats);
            int expAfter = 5;
            assertEquals(expAfter, cats.size());
84
        }
```

```
* Test of updateName method, of class Exercises.
         @org.junit.Test
         public void testUpdateName() {
91
             System.out.println("updateName");
             cats = ex.readFile("Cats.txt");
             String expResBefore = "Felix";
94
             String resBefore = cats.get(1).getName();
             assertEquals(expResBefore, resBefore);
             ex.updateName(cats, "Felix", "Ole");
             String expResAfter = "Ole";
             String resAfter = cats.get(1).getName();
             assertEquals(expResAfter, resAfter);
         }
         @org.junit.Test
         public void testUpdateNameH() {
             System.out.println("updateName with Hamcrest");
             cats = ex.readFile("Cats.txt");
111
             String expResAfter = "Ole";
             String resBefore = cats.get(1).getName();
             assertThat("Ole", not(equalTo(resBefore)));
114
             ex.updateName(cats, "Felix", "Ole");
             String resAfter = cats.get(1).getName();
             assertThat(expResAfter, is(equalTo(resAfter)));
         }
```

```
* Test of updateCat method, of class Exercises.
123
         @org.junit.Test
         public void testUpdateCat() {
124
             System.out.println("updateCat");
             cats = ex.readFile("Cats.txt");
127
             Cat newCat = new Cat("Bo", 13, "gray", false);
             ex.updateCat(cats, "Whiskers", newCat);
             assertEquals(newCat, cats.get(2));
         }
134
         @org.junit.Test
         public void testUpdateCatH() {
             System.out.println("updateCat with Hamcrest");
137
             cats = ex.readFile("Cats.txt");
138
             Cat newCat = new Cat("Bo", 13, "gray", false);
             ex.updateCat(cats, "Whiskers", newCat);
141
             assertThat(newCat, is(equalTo(cats.get(2))));
142
         }
```

```
154
          /**
155
          * Test of getSomeCats method, of class Exercises.
          @org.junit.Test
          public void testGetSomeCats() {
158
              System.out.println("getSomeCats");
              cats = ex.readFile("Cats.txt");
161
              int expBefore = 8;
              assertEquals(expBefore, cats.size());
              ArrayList<String> subList = ex.getSomeCats(cats, "B");
164
              int expAfter = 2;
              assertEquals(expAfter, subList.size());
          }
          /**
170
          * Test of sortedCats method, of class Exercises.
171
          @org.junit.Test
          public void sortedCats() {
174
              System.out.println("sortedCats");
175
              cats = ex.readFile("Cats.txt");
176
177
              String expBefore = "Bailey";
              assertEquals(expBefore, cats.get(0).getName());
178
179
              ArrayList<String> subList = ex.sortedCats(cats);
              String expAfter = "Alex";
              assertEquals(expAfter, subList.get(0));
          }
184
          /**
          * Test of sortedCats method, of class Exercises.
          @org.junit.Test
          public void getKittens() {
              System.out.println("sortedCats");
              cats = ex.readFile("Cats.txt");
              int expBefore = 8;
              assertEquals(expBefore, cats.size());
194
              ArrayList<Cat> subList = ex.getKittens(cats);
              int expAfter = 1;
              assertEquals(expAfter, subList.size());
          }
```

```
@Test
200
         public void testReadData() {
             System.out.println("Read data from file");
201
             data = ex.readData("Data.txt");
204
             int exp = 90;
205
             int result = data.size();
207
             assertEquals(exp, result);
         }
         @Test
         public void dataDrivenTestDataFileEndsWith() {
             int lastValue = 90;
214
             data = ex.readData("Data.txt");
215
            assertThat(lastValue, is(equalTo(data.size())));
217
        }
218 }
```

TESTS

Running sem.firstsemexam.ExercisesTest

getSomeCats

updateCat

updateName with Hamcrest

updateCat with Hamcrest

updateName

Could not find file!

java.io.FileNotFoundException: Cat.txt (Den angivne fil blev ikke fundet)

sortedCats

Read data from file

Could not read from file!

java.io.IOException: Stream closed

Read from file

Could not read from file!

java.io.IOException: Stream closed

sortedCats getOldest removeSickCats

Tests run: 13, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.272 sec

Results :

Tests run: 13, Failures: 0, Errors: 0, Skipped: 0

BUILD SUCCESS

Total time: 2.493s

Finished at: Sun Mar 11 10:42:16 CET 2018

Final Memory: 7M/245M
