```
1
 2 package staffTestsrc;
 4 import static org.junit.jupiter.api.Assertions.*;
14
15 class StaffTest
    // create a new CharityStaff object
17
      static CharityStaff cs = new CharityStaff();
18
19
     @BeforeAll
     static void setUpBeforeClass() throws Exception
20
21
          // populate the staff list with volunteers and employees
22
23
2.5
     @AfterAll
     static void tearDownAfterClass() throws Exception
26
27
          // remove population at end of test
28
          cs = null;
29
30
31
      @Test
      public void testGetTotalHours
32
33
          // get the total hours worked by all staff
34
          int totalHours = cs.getTotalHours(
35
          // assert that the total hours is equal to the expected value
36
          assertEquals(75, totalHours);
37
38
39
     @Test
40
      public void testFindPerson
41
          // search for a person by name
          Person p = cs.findPerson("Mary Munro");
43
44
          // assert that the person object is not null and has the correct name
45
46
          assertEquals("Mary Munro", p.getName().getFullName());
47
48
49
     @Test
50
      public void testListAllVolunteers
          // get the list of all volunteers
51
52
          String volunteerList = cs.listAllVolunteers();
53
54
          // assert that the list of volunteers contains the expected names
55
          assertTrue(volunteerList.contains("Helen Scott"));
56
          assertTrue(volunteerList.contains("James Jackson"));
57
58
59
      @Test
      public void testPopulate
          // get the list of all staff
61
62
          String staffList = cs.listAllNames();
63
64
          // assert that the list of staff contains the expected names
          assertTrue(staffList.contains("Helen Scott")
6.5
          assertTrue(staffList.contains("James Jackson"));
66
67
          assertTrue(staffList.contains("Tim Moore")
68
          assertTrue(staffList.contains("Mary Munro")
          assertTrue(staffList.contains("Keith Clark"));
69
```

```
70
71
72
    @Test
73 public void testVolunteerEquals True
74
          // create two new Volunteer objects with the same values
         Volunteer v1 = new Volunteer (21, new Name ("Helen Scott"),
 "helen@hotmail.com", "0131 123 1234", 5;
76
   Volunteer v2 = new Volunteer(21, new Name("Helen Scott"),
 "helen@hotmail.com", "0131 123 1234", 5);
77
         // assert that the two Volunteer objects are not equal
79
80
81
     @Test
82
83
    public void testVolunteerEquals False
       // create two new Volunteer objects with different values
84
         Volunteer v1 = new Volunteer (21, new Name ("Helen Scott"),
 "helen@hotmail.com", "0131 123 1234", 5);
         Volunteer v2 = new Volunteer (23, new Name ("Paul Smith"),
 "Paul@hotmail.com", "0121 456 4567", 8);
87
88
         // assert that the two Volunteer objects are not equal
89
90
91
92
93
```