



MonkeyTest.java

```
import org.junit.Before;
import org.junit.Test;

import static org.junit.Assert.assertEquals;

public class MonkeyTest {

    private Monkey defaultMonkey;
    @Before
    public void setUp() {
        defaultMonkey = initialMon("Friday", Species.DRILL, "Male", 5,
10, 15, "eggs");
    }

    /**
     * This method is providing short-hand way of creating instances.
     * @param name name
     * @param species species
     * @param sex sex
     * @param monSize monSize
     * @param weight weight
     * @param age age
     * @param favFood favFood
     * @return short-hand way of creating instances Monkey
     */
    protected Monkey initialMon(String name, Species species, String sex, int
monSize, int weight, int age, String favFood){
        return new Monkey(name, species, sex, monSize, weight, age, favFood);
    }

    @Test
    public void testGetName() {
        String expected = "Friday";
        assertEquals(expected, defaultMonkey.getName());
    }

    @Test
    public void testGetSpecies() {
        String expected = "drill";
        assertEquals(expected, defaultMonkey.getSpecies());
    }

    @Test
    public void testGetSex() {
        String expected = "Male";
        assertEquals(expected, defaultMonkey.getSex());
    }

    @Test
    public void testGetMonSize() {
        int expected = 5;
        assertEquals(expected, defaultMonkey.getMonSize());
    }

    @Test
```

```

public void testGetWeight() {
    int expected = 10;
    assertEquals(expected, defaultMonkey.getWeight());
}

@Test
public void testGetAge() {
    int expected = 15;
    assertEquals(expected, defaultMonkey.getAge());
}

@Test
public void testGetFavFood() {
    String expected = "eggs";
    assertEquals(expected, defaultMonkey.getFavFood());
}

@Test
public void testSetName() {
    defaultMonkey.setName("Sunday");
    String expected = "Sunday";
    assertEquals(expected, defaultMonkey.getName());
}

@Test
public void testSetSpecies() {
    defaultMonkey.setSpecies(Species.SAKI);
    String expected = String.valueOf(Species.SAKI);
    assertEquals(expected, defaultMonkey.getSpecies());
}

@Test
public void testSetSex() {
    defaultMonkey.setSex("Female");
    String expected = "Female";
    assertEquals(expected, defaultMonkey.getSex());
}

@Test
public void testSetMonSize() {
    defaultMonkey.setMonSize(50);
    int expected = 50;
    assertEquals(expected, defaultMonkey.getMonSize());
}

@Test
public void testSetWeight() {
    defaultMonkey.setWeight(100);
    int expected = 100;
    assertEquals(expected, defaultMonkey.getWeight());
}

@Test
public void testSetAge() {
    defaultMonkey.setAge(150);
    int expected = 150;
}

```

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        assertEquals(expected, defaultMonkey.getAge());
    }

    @Test
    public void testSetFavFood() {
        defaultMonkey.setFavFood("nuts");
        String expected = "nuts";
        assertEquals(expected, defaultMonkey.getFavFood());
    }
}

```

```

import org.junit.Before;
import org.junit.Test;

import java.util.ArrayList;

import static org.junit.Assert.*;

public class SanctuaryTest {

    private Home twoIsoThreeEnc;

    @Before
    public void setUp() {
        twoIsoThreeEnc = iso_enc(4,5);
    }

    protected Home iso_enc(ArrayList<Isolation> isolationNum,
ArrayList<Enclosure> enclosuresNum){
        return new Sanctuary(isolationNum, enclosuresNum);
    }

    @Test
    public void testReportSpecies() {
    }

    @Test
    public void testLookUpSpecies() {
    }

    @Test
    public void testProduceMonkeyList() {
    }

    @Test
    public void testProduceShoppingList() {
    }
}

```

```

import project.Food;
import project.Isolation;
import project.Monkey;
import org.junit.Assert;

```

```

import org.junit.Test;

/**
 * Test cases for Isolation. Verifying that Isolation state is properly
 * managed, and all Isolation
 * actions are properly validated.
 */
public class IsolationTest {

    @Test
    public void testAddCage() {
        Isolation isolation = new Isolation(10);
        isolation.addCage(5);
        Assert.assertEquals(isolation.getCage(), 15);
    }

    @Test
    public void testGetCage() {
        Isolation isolation = new Isolation(20);
        Assert.assertEquals(isolation.getCage(), 20);
    }

    @Test
    public void testAddMonkey() {
        Isolation isolation = new Isolation(10);
        isolation.addMonkey(new Monkey("spider"));
        isolation.addMonkey(new Monkey("spider"));

        Assert.assertEquals(isolation.getMonkeys().size(), 2);
        isolation.addMonkey(new Monkey("squirrel"));

        Assert.assertEquals(isolation.getMonkeys().size(), 3);
        Assert.assertTrue(isolation.addMonkey(new Monkey("squirrel")));
    }

    @Test
    public void testRemoveMonkey() {
        Isolation isolation = new Isolation(30);
        Monkey m1 = new Monkey("drill");
        Monkey m2 = new Monkey("guereza");
        m1.setAttention("m1", "male", 10, 30, 5, Food.INSECTS);
        m1.setAttention("m2", "male", 10, 20, 5, Food.TREE_SAP);

        Assert.assertTrue(isolation.addMonkey(m1));
        Assert.assertTrue(isolation.addMonkey(m2));
        Assert.assertEquals(isolation.getMonkeys().size(), 2);

        Assert.assertTrue(isolation.removeMonkey(m1));
        Assert.assertEquals(isolation.getMonkeys().size(), 1);
    }
}

```

```

public class EnclosureTest {

    @Test
    public void testGetSize() {

```

```

    Enclosure enclosure = new Enclosure("drill", 120);
    Assert.assertEquals(enclosure.getSize(), 120);
}

@Test
public void testGetSpecies() {
    Enclosure enclosure = new Enclosure("guereza", 110);
    Assert.assertEquals(enclosure.getSpecies(), "guereza");
}

@Test
public void testAddMonkey() {
    Enclosure enclosure = new Enclosure("saki", 100);
    Assert.assertFalse(enclosure.addMonkey(new Monkey("saki")));
    Monkey m1 = new Monkey("saki");
    Monkey m2 = new Monkey("squirrel");
    Assert.assertFalse(enclosure.addMonkey(m2));
    m1.setAttention("m1", "male", 10, 10, 10, Food.INSECTS);
    Assert.assertTrue(enclosure.addMonkey(m1));
    Assert.assertEquals(enclosure.getMonkeys().size(), 1);
}

@Test
public void testRemoveMonkey() {
    Enclosure enclosure = new Enclosure("mangabey", 90);
    Monkey m1 = new Monkey("mangabey");
    m1.setAttention("m1", "male", 30, 15, 5, Food.FRUIT);
    Assert.assertTrue(enclosure.addMonkey(m1));
    Assert.assertTrue(enclosure.removeMonkey(m1));
    Assert.assertEquals(enclosure.getMonkeys().size(), 0);
}

```