Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM) > eam2 > a gn1/a igned p ojec /code/ c/ e /ja a > ed . ande bil .c 278. eam2.a ign1 > AppTe Se ion

AppTest

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<u>e 1()</u>		0%		n/a	1	1	1	1	1	1
<u>e 2()</u>		0%		n/a	1	1	1	1	1	1
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Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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AppTe .ja a
```

AppTest.java

```
package edu.vanderbilt.cs278.team2.assign1;
import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertNotNull;
import static org.junit.Assert.assertTrue;
import static org.junit.Assert.fail;
import java.util.List;
import org.joda.time.DateTime;
import org.junit.Test;

public class AppTest {

    @Test
    public void test1() throws Exception {
      }

      @Test
    public void test2() throws Exception {
      }
}
```

```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e
```

HistoricalSite

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e Loca ion(Loca ion)		0%		0%	2	2	4	4	1	1
e Un i i ed()		0%		n/a	1	1	2	2	1	1
e Di pla Name(S ing)		0%		n/a	1	1	2	2	1	1
ge Loca ionDe c ip ion()		0%		n/a	1	1	1	1	1	1
ge Loca ion()		0%		n/a	1	1	1	1	1	1
ge Hi o De c ip ion()		0%		n/a	1	1	1	1	1	1
ge La i de()		0%		n/a	1	1	1	1	1	1
ge Longi de()		0%		n/a	1	1	1	1	1	1
Hi o icalSi e()		100%		n/a	0	1	0	3	0	1
e Vi i ed()		100%		n/a	0	1	0	2	0	1
e Loca ionDe c ip ion(S ing)		100%		n/a	0	1	0	2	0	1
e Hi o De c ip ion(S ing)		100%		n/a	0	1	0	2	0	1
e La i de(do ble)		100%		n/a	0	1	0	2	0	1
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i Vi i ed()		100%		n/a	0	1	0	1	0	1
ge Di pla Name()		100%		n/a	0	1	0	1	0	1
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```
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```

HistoricalSite.java

```
package edu.vanderbilt.cs278.team2.assign1;
import com.fasterxml.jackson.annotation.JsonIgnore;
```

```
import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
import com.fasterxml.jackson.annotation.JsonProperty;
@JsonIgnoreProperties(ignoreUnknown = true)
public class HistoricalSite {
         private boolean visited;
         @JsonProperty("title") private String displayName;
@JsonProperty("location") private String locationDescription;
@JsonProperty("latitude") private double latitude;
@JsonProperty("longitude") private double longitude;
@JsonProperty("marker_text") private String historyDescription;
         private Location location = new Location():
         public HistoricalSite() {
                   super();
           @Override
         public boolean equals(Object o) {
                    // If the object is compared with itself then return true
                   if (o == this) {
                        return true;
                   /* Check if o is an instance of Complex or not
                   "null instanceof [type]" also returns false */
if (!(o instanceof HistoricalSite)) {
                        return false;
                   // typecast o to Complex so that we can compare data members \mbox{HistoricalSite} c = (\mbox{HistoricalSite}) o;
                   // Compare the data members and return accordingly
                   return Double.compare(getLongitude(), c.getLocation().getLongitude()) == 0
   && Double.compare(getLatitude(), c.getLocation().getLatitude()) == 0
                             && historyDescription == c.getHistoryDescription()
&& displayName == c.getDisplayName()
                                       && locationDescription == c.getLocationDescription();
          public boolean isVisited() {
                   return visited;
         public HistoricalSite(String siteName) {
                   this.displayName = siteName;
         public void setVisited() {
                   visited = true;
         }
         public void setUnvisited() {
                   visited = false;
          @JsonProperty("name")
         public void setDisplayName(String name) {
                   displayName = name;
          @JsonProperty("name")
         public String getDisplayName() {
                   return displayName;
          @JsonProperty("location")
          public void setLocationDescription(String description) {
                   locationDescription = description;
          @JsonProperty("location")
         public String getLocationDescription() {
                   return locationDescription;
         public void setLocation(Location 1) {
                   if (1 == null)
                                       throw new IllegalArgumentException("Location cannot be null.");
                   this.location = 1;
         public Location getLocation() {
                   return location;
          @JsonProperty("marker_text")
          public void setHistoryDescription(String description) {
                   historyDescription = description;
          @JsonProperty("marker_text")
          public String getHistoryDescription() {
                   return historyDescription;
```

```
@JsonProperty("latitude")
public double getLatitude() {
    return latitude;
}

@JsonProperty("latitude")
public void setLatitude(double latitude) {
    this.latitude = latitude;
}

@JsonProperty("longitude")
public double getLongitude() {
    return longitude;
}

@JsonProperty("longitude")
public void setLongitude(double longitude) {
    this.longitude = longitude;
}
```

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM) > eam2 > a gn1/a igned_p ojec /code/ c/main/ja a > ed . ande bil .c 278. eam2.a ign1 > Se ion

Hi o icalSi eDa aP o ide

HistoricalSiteDataProvider

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ge In ance()			100%			50%		1	2		0	3		0	1
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<u>a ic</u>			100%			n/a		0	1		0	1		0	1
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Hi o icalSi eDa aP o ide .ja a

HistoricalSiteDataProvider.java

```
package edu.vanderbilt.cs278.team2.assign1;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.List;
import com.fasterxml.jackson.databind.JavaType;
import com.fasterxml.jackson.databind.ObjectMapper;
public class HistoricalSiteDataProvider {
        public static final String NASHVILLE_HISTORICAL_SITES_URL = "https://data.nashville.gov/resource/2j6c-58gf.json";
           private static HistoricalSiteDataProvider instance = null;
           private List<HistoricalSite> sitesList = null;
           protected HistoricalSiteDataProvider() {
              // Exists only to defeat instantiation.
           }
           public static HistoricalSiteDataProvider getInstance() {
              if(instance == null) {
                 instance = new HistoricalSiteDataProvider();
              return instance;
           public boolean fetchData() throws Exception {
                    URL jsonURL = null;
                    boolean success = true;
                            jsonURL = new URL(NASHVILLE_HISTORICAL_SITES_URL);
                   } catch (MalformedURLException e) {
    // TODO Auto-generated catch block
                            e.printStackTrace();
                            success = false;
                   }
                    JSONParser parser = new JSONParser(jsonURL);
                   setSitesList(parser.getMarkerData());
                   return success;
           }
           public List<HistoricalSite> getSitesList() {
                    return sitesList;
           }
```

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e B oke

HistoricalSitesBroker



}

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM) > eam2 > a gn1/a igned p ojec /code/ c/ e /ja a > ed . ande bil .c 278. eam2.a ign1 > Se ion

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HistoricalSitesBrokerIT.new Runnable() {...}

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HistoricalSitesBrokerIT.new Runnable() {...}

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HistoricalSitesBrokerIT.new Runnable() {...}

Elemen	Mi ed In	c ion	Co .	Mi ed B anche	Co .	Mi	ed	С	Mi	ed	Line	Mi	ed	Me hod
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			100%		n/a		0	1		0	2		0	1
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Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e B oke IT. ne R nnable() ...

HistoricalSitesBrokerIT.new Runnable() {...}

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			100%		n/a	(0	1		0	2		0	1
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HistoricalSitesBrokerIT.new Runnable() {...}

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				100%			n/a		0	1		0	2		0	1
1	o al	32 of 44		27%	3 of	f 4	25%		2	4		4	9		0	2

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Hi o icalSi e B oke IT

HistoricalSitesBrokerIT

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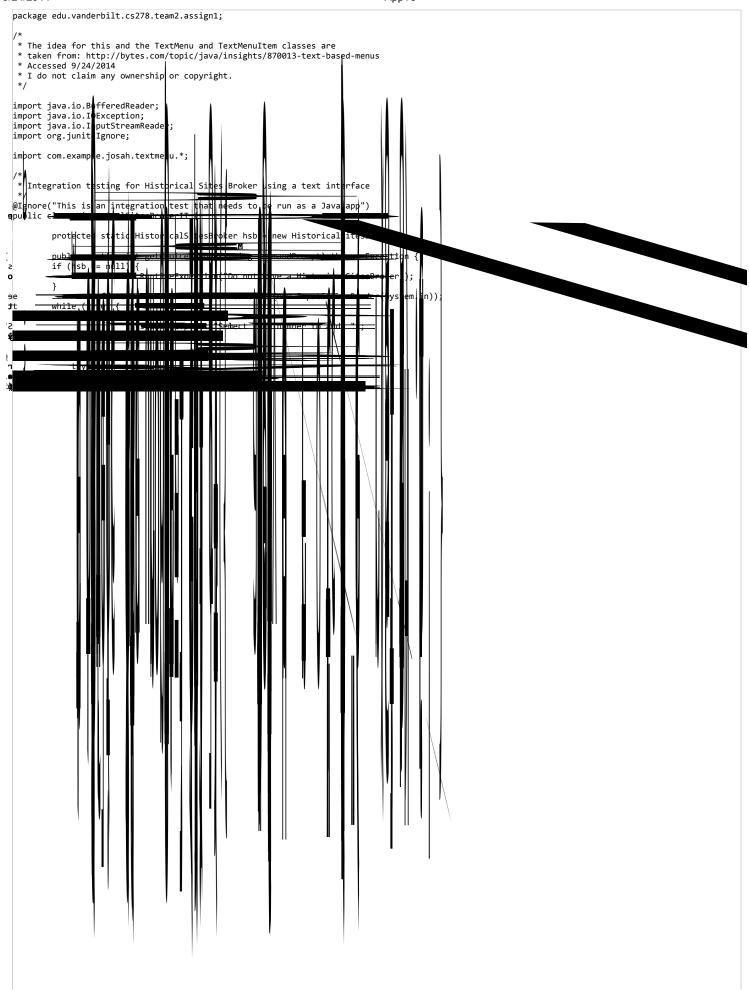
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Hi o icalSi e B oke IT.ja a

HistoricalSitesBrokerIT.java



```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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HistoricalSitesBrokerTest

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e Main ain Sepa a eVi i edAndAllLi ()				0%			0%		7	7		14	14		1	1
e Ge Un i i edLi ()				0%			0%		2	2		11	11		1	1
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Hi o icalSi e B oke Te .ja a						

HistoricalSitesBrokerTest.java

```
package edu.vanderbilt.cs278.team2.assign1;
import static org.junit.Assert.*;
import org.junit.Test;
import java.util.Iterator;
public class HistoricalSitesBrokerTest {
         private HistoricalSitesBroker hsb = new HistoricalSitesBroker();
         private static final int NASHVILLE_GOV_HISTORICAL_SITES_MAX_COUNT = 155;
         @Test
         public void testGetUnvisitedList() {
                  hsb.getCurrentList().discardList();
hsb.add(new HistoricalSite("Franklin Park"));
hsb.add(new HistoricalSite("Lewis Ginter Gardens"));
                  assertFalse(hsb.getCurrentList().getCurrentList().isEmpty());
Iterator<HistoricalSite> iter = hsb.getCurrentList().getCurrentList().iterator();
                  HistoricalSite hs = iter.next();
                  hs.setVisited();
                  HistoricalSitesQueue hsq_unvisited = hsb.getUnvisitedList();
                  assertTrue(hsq_unvisited.size()==1);
                  assertFalse(hsq_unvisited.getCurrentList().iterator().next().equals(hs));
         }
         @Test
         public void testReorderListByDistance() {
                  HistoricalSite hs1 = new HistoricalSite("Franklin Park");
HistoricalSite hs2 = new HistoricalSite("Lewis Ginter Gardens");
                  HistoricalSite hs3 = new HistoricalSite("Robert E. Lee Statue");
hs1.setLocation(new Location(36.145426, -86.778297));
                  hs2.setLocation(new Location(35.009388, -84.595385));
                  hs3.setLocation(new Location(37.516996, -77.448288));
                  hsb.getCurrentList().discardList();
                  hsb.add(hs3);
                  hsb.add(hs1);
                  hsb.add(hs2);
                  assertTrue(hsb.getCurrentList().size()==3);
                  Location ourLocation = new Location(36.142203, -86.802715);
                  Historical Sites Queue\ reordered List = hsb.get Current List(). get List Reordered By Distance To Location (our Location);
                  assertTrue(reorderedList.size()==3);
                  Iterator<HistoricalSite> iter = reorderedList.getCurrentList().iterator();
                  assertTrue(iter.next().equals(hs1));
                  assertTrue(iter.next().equals(hs2));
                  assertTrue(iter.next().equals(hs3));
         @Test
         public void testMaintainsSeparateVisitedAndAllLists() throws Exception {
                  assertTrue(hsb.getMasterList().size()== NASHVILLE_GOV_HISTORICAL_SITES_MAX_COUNT);
                  Iterator<HistoricalSite> iter = hsb.getMasterList().getCurrentList().iterator();
```

```
HistoricalSite hs1 = iter.next();
HistoricalSite hs2 = iter.next();

hsb.add(hs1);
hsb.add(hs2);

assertTrue(hsb.getCurrentList().size() == 2);
assertTrue(hsb.getUnvisitedList().size()==2);

hsb.visit(hs1);
hsb.visit(hs2);

assertTrue(hsb.getCurrentList().size() == 2);
assertTrue(hsb.getCurrentList().size() == 2);
assertTrue(hsb.getMasterList().size() == 2);
assertTrue(hsb.getMasterList().size() == 2);
}
```

lii o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)							C ea ed ih Ja	aCoCo 0.7.2.201409121644
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Se ion

```
public boolean isEmpty() {
          return sites.isEmpty();
}

public int size() {
          return sites.size();
}
```

```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e Li Te
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HistoricalSitesListTest

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e Dele eRemo e Simila Si e ()			0%		0%	2	2	9	9	1	1
e Add()			0%		0%	2	2	6	6	1	1
e Dele e()			0%		n/a	1	1	8	8	1	1
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HistoricalSitesListTest.java

```
package edu.vanderbilt.cs278.team2.assign1;
import static org.junit.Assert.*;
import java.util.List;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Iterator;
import org.junit.Test;
import edu.vanderbilt.cs278.team2.assign1.HistoricalSite;
import edu.vanderbilt.cs278.team2.assign1.HistoricalSitesList;
public class HistoricalSitesListTest {
         @Test
        public void testListSetterAndGetter() {
                  HistoricalSite hs = new HistoricalSite(new String("Franklin Park"));
                  HistoricalSite hs2 = new HistoricalSite(new String("Lewis Ginter Gardens"));
                  HistoricalSitesList hsl = new HistoricalSitesList();
                  List<HistoricalSite> sites = new ArrayList<HistoricalSite>(2);
                  sites.add(hs);
                  sites.add(hs2);
                  hsl.setCurrentList(sites);
                  Iterator<HistoricalSite> iter = hsl.getCurrentList().iterator();
                  try {
                           assertTrue(hs.equals(iter.next()));
                           assertTrue(hs2.equals(iter.next()));
                  catch(RuntimeException e) {
    fail("List was of incorrect size");
         public void testAddDoesNotDuplicate() {
                 HistoricalSite hs = new HistoricalSite("Franklin Park");
HistoricalSite hs2 = new HistoricalSite("Franklin Park");
HistoricalSitesList hs1 = new HistoricalSitesList();
                  assertTrue(hsl.isEmpty());
                  hsl.add(hs);
                  assertTrue(hsl.size()==1);
                 hsl.add(hs2);
                  assertTrue(hsl.size()==1);
        }
         @Test
         public void testDeleteRemovesSimilarSites() {
                  HistoricalSite hs = new HistoricalSite("Franklin Park");
                  HistoricalSite hs2 = new HistoricalSite("Franklin Park");
                  HistoricalSitesList hsl = new HistoricalSitesList();
                  assertTrue(hsl.isEmpty());
                  hsl.add(hs):
                  assertTrue(hsl.size()==1);
                  hsl.delete(hs2);
                  assertTrue(hsl.isEmpty());
```

```
@Test
public void testAdd() {
        HistoricalSite hs = new HistoricalSite("Franklin Park");
        HistoricalSitesList hsl = new HistoricalSitesList();
        assertTrue(hsl.getCurrentList().size()==0);
        hsl.add(hs):
        assertTrue(hsl.getCurrentList().get(0).equals(hs));
}
@Test
public void testDelete() {
        HistoricalSite hs = new HistoricalSite("Franklin Park");
        HistoricalSitesList hsl = new HistoricalSitesList();
        assertTrue(hsl.getCurrentList().isEmpty());
        hsl.add(hs);
        assertFalse(hsl.getCurrentList().isEmpty());
        hsl.delete(hs);
        assertTrue(hsl.getCurrentList().isEmpty());
}
@Test
public void testClear() {
        HistoricalSite hs = new HistoricalSite("Franklin Park");
        HistoricalSitesList hsl = new HistoricalSitesList();
        assertTrue(hsl.getCurrentList().isEmpty());
        hsl.add(hs);
        assertFalse(hsl.getCurrentList().isEmpty());
        hsl.discardList();
        assertTrue(hsl.getCurrentList().isEmpty());
}
```

```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

C ea ed i h JaCoCo 0.7.2:201409121644

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM) 

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```

HistoricalSitesQueue.DistanceComparator

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Hi o icalSi e Q e e.Di anceCompa a o (Hi o icalSi e Q e e, Loca ion)		0)%		n/a		1	1		3	3	-	1
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```
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HistoricalSitesQueue

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ea ange(Hi o icalSi e, in)			0%			0%		3	3		5	5		1	1
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```
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Hi o icalSi e Q e e.ja a
```

HistoricalSitesQueue.java

```
@param hs: one of the sites we want to arrange
   @param locationInQueue: the 0-based index of the other site we want to rearrange
 * @throws IndexOutOfBoundsException: if the locationInQueue does not correspond to another site
 * If the two sites are the same site then the function does nothing.
public void rearrange(HistoricalSite hs, int locationInQueue) throws IndexOutOfBoundsException {
        HistoricalSite otherSite = sites.get(locationInQueue);
        if (hs==otherSite || hs.equals(otherSite)) {
                return;
        rearrange(hs, otherSite);
}
public void rearrange(HistoricalSite lhs, HistoricalSite rhs) throws NoSuchElementException {
        // first check if they're both in the queue
        if (!sites.contains(lhs))
                throw new NoSuchElementException(lhs.getDisplayName() + " is not in the List.");
        if (!sites.contains(rhs))
                throw new NoSuchElementException(rhs.getDisplayName() + " is not in the List.");
        int index_lhs, index_rhs;
        index_lhs = sites.indexOf(lhs);
        index_rhs = sites.indexOf(rhs);
        sites.set(index_lhs, rhs);
sites.set(index_rhs, lhs);
}
public HistoricalSitesQueue getListReorderedByDistanceToLocation(Location 1) {
        List<HistoricalSite> reorderedList = new ArrayList<HistoricalSite>(sites);
        Collections.sort(reorderedList, new DistanceComparator(1));
        HistoricalSitesQueue hsq = new HistoricalSitesQueue();
        hsq.setCurrentList(reorderedList);
        return hsq;
public HistoricalSitesQueue getListReorderedByDistanceToLocation(double latitude, double longitude) {
        return getListReorderedByDistanceToLocation(new Location(latitude, longitude));
}
```

```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Hi o icalSi e Q e eTe
```

HistoricalSitesQueueTest

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Hi o icalSi e Q e eTe ()		0%		n/a	1	1	2	2	1	1
To al	75 of 75	0%	0 of 0	n/a	2	2	17	17	2	2

```
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Hi o icalSi e Q e eTe .ja a
```

HistoricalSitesQueueTest.java

```
package edu.vanderbilt.cs278.team2.assign1;
import static org.junit.Assert.*;
import java.util.ArrayList;
import java.util.List;
import org.junit.Test;
import java.util.Iterator;
public class HistoricalSitesQueueTest {
        private HistoricalSitesQueue hsq = new HistoricalSitesQueue();
        @Test
        public void testRearrangeHistoricalSiteHistoricalSite() {
                HistoricalSite hs = new HistoricalSite(new String("Franklin Park"));
                HistoricalSite hs2 = new HistoricalSite(new String("Lewis Ginter Gardens"));
                hsq.discardList();
                hsq.add(hs);
                hsq.add(hs2);
                HistoricalSite hs_old, hs2_old, hs_new, hs2_new;
                Iterator<HistoricalSite> iter = hsq.getCurrentList().iterator();
                hs_old = iter.next();
                hs\overline{2}_old = iter.next();
                hsq.rearrange(hs_old, hs2_old);
                iter = hsq.getCurrentList().iterator();
                hs_new = iter.next();
```

```
hs2_new = iter.next();
assertFalse(hs_old.equals(hs_new));
assertFalse(hs2_old.equals(hs2_new));
}
```

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM) C ea ed i h JaCoCo 0.7.2.201409121644

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edu.vanderbilt.cs278.team2.assign1

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Loca ionFac o		0	%		n/a		1	1		1	1		1	1	1		1
To al	328 of 609	46	% 3	2 of 46	30%		45	80		79	166		25	57	2		9

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asgn1/assigned_project/code/src/test/java

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ed . ande bil .c 278. eam2.a ign1		27%		22%		41	55	14	13 184		20	32		5		11
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com.example.josah.textmenu

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Te Men I em		89%		00%	0	7	2	13	0	6	0		1
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team2

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a gn1/a igned p ojec /code/ c/main/ja a		56%		43%	49	102	89	215	27	72	2	1
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asgn1/assigned_project/code/src/main/java

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com.e ample.jo ah.e men		86%		86%		4	22		10	49		2	15		0		3
To al	357 of 810	56%	34 of 60	0 43%	4	19 ′	102		89	215		27	72		2		12

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ed . ande bil .c 278. eam2.a ign1

edu.vanderbilt.cs278.team2.assign1

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Hi o icalSi e Li Te			0%			0%		11	11		55	55		7	7	1	
Hi o icalSi e Q e eTe			0%			n/a		2	2		17	17		2	2	1	

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<u>AppTe</u>	0%	Ď	n/a	3	3	3	3	3	3	1
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Hi o icalSi e B oke IT.ne R nnable()	□ 86%	ò	n/a	0	2	1	7	0	2	0
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edu.vanderbilt.cs278.team2.assign1

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<u>Hi o icalSi e Li Te .ja a</u>			0%			0%		11	11	55	55		7	7		1		1
Hi o icalSi e Q e eTe .ja a			0%			n/a		2	2	17	17		2	2		1		1
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JSONPa e Te .ja a			0%			0%		3	3	6	6		2	2		1		1
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edu.vanderbilt.cs278.team2.assign1

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Loca ion.ja a				21%		n/a		4	5	9	13	4	5	0		1
JSONPa e ja a				49%		0%		2	4	8	15	1	3	0		1
Hi o icalSi e Li .ja a]	69%		50%		5	12	6	21	2	9	0		1
Hi o icalSi e B oke .ja a				86%		75%		5	14	5	31	2	8	0		1
Hi o icalSi eDa aP o ide .ja a				90%		50%		1	7	2	19	0	6	0		1
Loca ionFac o .ja a				0%		n/a		1	1	1	1	1	1	1		1
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Te Men .ja a		85%		83%		4	15		8	36		2	9		0		2
		89%		100%		0	7		2	13		0	6		0		1
To al	29 of 201	86%	2 of 14	86%		4	22	1	10	49		2	15		0		3

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<u> 36 1011</u>

```
import com.fasterxml.jackson.databind.ObjectMapper;
public class JSONParser {
        private URL markerData;
    private final ObjectMapper objectMapper = new ObjectMapper();
    private final JavaType markerListType = objectMapper.getTypeFactory()
            .constructCollectionType(List.class, HistoricalSite.class);
       public JSONParser(URL url) {
                this.markerData = url;
        public List<HistoricalSite> getMarkerData() throws Exception {
        return objectMapper.readValue(markerData, markerListType);
        @SuppressWarnings("deprecation")
        public void printMarkerData() throws Exception {
                JsonFactory f = new JsonFactory();
                JsonParser jp = f.createJsonParser(markerData);
                jp.nextToken();
                while (jp.nextToken() != JsonToken.END_ARRAY)
                        System.out.println(jp.getCurrentName());
                        jp.nextToken();
                        System.out.println(jp.getText());
                }
       }
```

```
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JSONPa e Te
```

JSONParserTest

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e Ge Ma ke Da a()			0%		0%		2	2		5	5		1	1
JSONPa e Te ()			0%		n/a		1	1		1	1		1	1
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```
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JSONPa e Te .ja a
```

JSONParserTest.java

```
package edu.vanderbilt.cs278.team2.assign1;
import static org.junit.Assert.*;
import java.net.URL;
import java.util.List;
import org.junit.Test;

public class JSONParserTest {
    private static final String NASHVILLE_HISTORICAL_SITES_URL = "https://data.nashville.gov/resource/2j6c-58gf.json";

    @Test
    public void testGetMarkerData() throws Exception {
        JSONParser json = new JSONParser(new URL(NASHVILLE_HISTORICAL_SITES_URL));
        List<HistoricalSites sites = json.getMarkerData();
        assertTrue(sites.size() == 155); // there should be 155 entries in the historical markers list
        assertTrue(sites.get(0).getDisplayName().equals("HEATON'S STATION")); // first entry should be heaton's station
        //json.printMarkerData();
}
</pre>
```

```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Loca ion
```

Location

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Loca ion(do ble, do ble)				0%			n/a		1	1		4	4		1	1
ge Longi de()				0%			n/a		1	1		1	1		1	1
ge La i de()				0%			n/a		1	1		1	1		1	1
Loca ion()				100%			n/a		0	1		0	4		0	1
To al	34	of 43		21%	0 0	f 0	n/a		4	5		9	13		4	5

```
Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

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Loca ion.ja a
```

Location.java

```
package edu.vanderbilt.cs278.team2.assign1;
public class Location {
        private double latitude, longitude;
        public Location (double la, double lo) {
                this.latitude = la;
                this.longitude = lo;
        public Location() {
                this.latitude = 0.0;
                this.longitude = 0.0;
        public double getLongitude() {
                return 0.0;
        public double getLatitude() {
                return 0.0;
        public double getDistanceTo(Location rhs) {
                double retVal = Math.pow(this.latitude - rhs.latitude, 2);
                retVal += Math.pow(this.longitude - rhs.longitude, 2);
                return Math.sqrt(retVal);
```

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM)

C ea ed i h JaCoCo 0.7.2.201409121644

Hi o icalSi e B oke IT (Sep 24, 2014 3:03:23 PM) > eam2 > a gn1/a igned_p ojec /code/ c/main/ja a > ed . ande bil .c 278. eam2.a ign1 > Se ion_
Loca ionFac o

LocationFactory

Elemen	Mi ed In	c ion Co.	Mi ed B anche	Co.	Mi e	d C	M	i ed	Line	Mi e	Me hod
Loca ionFac o ()		0%		n/a		1 1		1	1		1 1
To al	3 of 3	0%	0 of 0	n/a		1 1		1	1		1 1

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Loca ionFac o .ja a

LocationFactory.java

```
package edu.vanderbilt.cs278.team2.assign1;
public class LocationFactory {
}
```

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Te Men .ne R nnable() ...

TextMenu.new Runnable() {...}

Elemen	Mi ed In	c ion	Co .	Mi ed B anche	Co .	Mi	ed	С	Mi	ed	Line	Mi	ed	Me hod
<u>n()</u>			0%		n/a		1	1		2	2		1	1
			100%		n/a		0	1		0	2		0	1
To al	3 of 6		50%	0 of 0	n/a		1	2		2	4		1	2

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TextMenu

Elemen	Mi ed In	c ion Co.	Mi ed B anche	Co .	Mi ed	С	Mi ed	Line	Mi ed	Me hod
<u>p omp ()</u>		72%		50%	2	3	3	9	0	1
Te Men (S ing, Te Men I em[])		0%		n/a	1	1	1	1	1	1
<u>n()</u>		78%		100%	0	2	2	6	0	1
di pla ()		100%		100%	0	2	0	7	0	1
ini iali e(boolean, boolean, Te Men I em[])		100%		100%	0	3	0	4	0	1
<u>a ic</u>		100%		n/a	0	1	0	2	0	1
Te Men (S ing, boolean, boolean, Te Men I em[])		100%		n/a	0	1	0	4	0	1
To al	22 of 158	86%	2 of 12	83%	3	13	6	33	1	7

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Te Men .ja a

TextMenu.java

```
package com.example.josah.textmenu;
 * This code is taken from: http://bytes.com/topic/java/insights/870013-text-based-menus
 * Accessed 9/24/2014
 * I do not claim any ownership or copyright.
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
public class TextMenu extends TextMenuItem {
    private static final TextMenuItem quit= new TextMenuItem("quit", new Runnable() {
        public void run() {
            System.exit(0);
    });
    private static final TextMenuItem back= new TextMenuItem("back");
    List<TextMenuItem> items;
    public TextMenu(String title, TextMenuItem ... items) { this(title, false, true, items); }
    public TextMenu(String title, boolean addBack, boolean addQuit, TextMenuItem ... items) {
        super(title);
        setExec(this);
        initialize(addBack, addQuit, items);
    private void initialize(boolean addBack, boolean addQuit, TextMenuItem ... items) {
        this.items= new ArrayList<TextMenuItem>(Arrays.asList(items));
        if (addBack) this.items.add(back);
        if (addQuit) this.items.add(quit);
    private void display() {
        int option= 0;
        System.out.println(getTitle()+":");
        for (TextMenuItem item : items) {
            System.out.println((option++)+": "+item.getTitle());
        System.out.print("select option: ");
        System.out.flush();
    private TextMenuItem prompt() throws IOException {
        BufferedReader br= new BufferedReader(new InputStreamReader(System.in));
        while (true) {
            display();
            String line = br.readLine();
                int option= Integer.parseInt(line);
                if (option >= 0 && option < items.size())</pre>
                    return items.get(option);
            catch (NumberFormatException e) { }
            System.out.println("not a valid menu option: "+line);
    }
    public void run() {
            for (TextMenuItem item= prompt(); item.isExec(); item= prompt())
                item.run();
        catch (Throwable t) {
            t.printStackTrace(System.out);
    }
```

```
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```

TextMenultem

Elemen	Mi e	ed In	c ion	Co .	Mi	ed B anche	Co .	Mi	ed	С	Mi	ed	Line	Mi	ed	Me hod
<u>_n()</u>				56%			n/a		0	1		2	5		0	1
Te Men I em(S ing, R nnable)				100%			n/a		0	1		0	4		0	1
i E ec()				100%			100%		0	2		0	1		0	1
Te Men I em(S ing)				100%			n/a		0	1		0	1		0	1
e E ec(R nnable)				100%			n/a		0	1		0	1		0	1
ge Ti le()				100%			n/a		0	1		0	1		0	1
To al	4 of 3	7		89%	0 o	f 2	100%		0	7		2	13		0	6

```
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Te Men I em.ja a
```

TextMenultem.java

```
package com.example.josah.textmenu;
 * This code is taken from: http://bytes.com/topic/java/insights/870013-text-based-menus
* Accessed 9/24/2014

* I do not claim any ownership or copyright.

*/
public class TextMenuItem implements Runnable {
    private String title;
    private Runnable exec;
    protected TextMenuItem(String title) { this(title, null); }
    public TextMenuItem(String title, Runnable exec) {
        this.title= title;
        this.exec= exec;
    public String getTitle() { return title; }
    public boolean isExec() { return exec != null; }
    protected void setExec(Runnable exec) { this.exec= exec; }
    public void run() {
        try {
            exec.run();
        catch (Throwable t) {
            t.printStackTrace(System.err);
    }
```

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