Site.java

```java
//Name:     Mark Lambert, Darius Herdes
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//Purpose:  Data Structures & Algorithms Final Assessment
//Class for Site Objects, allowing us to store extra information (name, coordinates, siteIndex etc)
package Graph;

public class Site {
    private String name;
    //Length 2; 0 for x, 1 for y
    private double coords[] = new double[2];
    private int siteIndex;
    private static int count = 0;

    //Constructors
    public Site()
    {
        setName("");
        setCoOrds(0,0);
    }

    public Site(String name, double x, double y)
    {
        setName(name);
        setCoOrds(x, y);
        setIndex();
    }

    //Set name of a site
    public void setName(String name)
    {
        this.name = name;
    }

    //Returns the name of a site
```

```
35      public String getName()
36      {
37          return name;
38      }
39
40      //Methods to get coordinates
41      public double getX() {
42          return coords[0];
43      }
44
45      public double getY() {
46          return coords[1];
47      }
48
49      //Method to set coordinates for Site
50      public void setCoOrds(double x, double y)
51      {
52          //Index 0 = x coords
53          coords[0] = x;
54          //Index 1 = y coords
55          coords[1] = y;
56      }
57
58      //Method used to set the index of the site
59      public void setIndex()
60      {
61          siteIndex = count;
62          count++;
63      }
64
65      public int getIndex()
66      {
67          return siteIndex;
68      }
69
70      public String toString()
71      {
```

```
72          return "-------------Site Search Details-------------" +
73                  "\nSite Name:       " + name +
74                  "\nCo-ordinates (x,y): "+ coords[0] + ", " + coords[1];
75      }
76  }
77
```