

ColorList.java

```
1 package project1_jk;
2
3 import java.util.ArrayList;
4
5 /**
6  * ColorList class is used to store a collection of Color objects.
7  * This class inherits all of its properties from an ArrayList<Color>. It
8  * adds Color-specific functions that allow search by color name
9  * and by hexadecimal color representation.
10 *
11 * This class does not store Color objects in any particular order.
12 *
13 * @author Joanna Klukowska
14 *
15 */
16 @SuppressWarnings("serial")
17 public class ColorList extends ArrayList<Color> {
18
19     /**
20      * Search through the list of colors for an object matching
21      * the given colorName.
22      * @param colorName the name of the color for which to search
23      * @return the reference to a matching Color object in the list, or
24      * null if the matching color is not found
25      */
26     public Color getColorByName( String colorName ) {
27
28         for (Color c : this ) {
29             String color = c.getName();
30             if (color == null)
31                 continue;
32             if (color.equalsIgnoreCase( colorName ) )
33                 return c;
34         }
35         return null;
36     }
37
38     /**
39      * Search through the list of colors for an object matching
40      * the given hexValue.
41      * @param hexValue the hexadecimal value of the color for which to search
42      * @return the reference to a matching Color object in the list, or
43      * null if the matching color is not found
44      */
45     public Color getColorByHexValue( String hexValue ) {
46
47         for (Color c : this ) {
48             String hex = c.getHexValue();
49             if (hex != null && hex.equalsIgnoreCase( hexValue ) )
50                 return c;
51         }
52         return null;
53     }
54 }
55 }
56
```