| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/RegionInterface.html)   [**NEXT CLASS**](http://docs.google.com/ShapeComponent.html) | [**FRAMES**](http://docs.google.com/index.html?Searcher.html)    [**NO FRAMES**](http://docs.google.com/Searcher.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## Class Searcher

[java.lang.Object](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true)  
 **Searcher**

public class **Searcher**extends [Object](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true)

Class that demonstrates search algorithms

**Author:** Mark Guzdial, Barb Ericson

| **Constructor Summary** | |
| --- | --- |
| [**Searcher**](http://docs.google.com/Searcher.html#Searcher())() |

| **Method Summary** | |
| --- | --- |
| static [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) | [**binaryFind**](http://docs.google.com/Searcher.html#binaryFind(java.lang.String,%20java.lang.String%5B%5D))([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) target, [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] list)            Method to use a binary search to find a target string in a sorted array of strings |
| static [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) | [**linearFind**](http://docs.google.com/Searcher.html#linearFind(java.lang.String,%20java.lang.String%5B%5D))([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) target, [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] list)            Implement a linear search through the list |
| static void | [**main**](http://docs.google.com/Searcher.html#main(java.lang.String%5B%5D))([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] args)            Main for testing binary find |

| **Methods inherited from class java.lang.**[**Object**](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true) |
| --- |
| [clone](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#clone()), [equals](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#equals(java.lang.Object)), [finalize](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#finalize()), [getClass](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#getClass()), [hashCode](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#hashCode()), [notify](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#notify()), [notifyAll](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#notifyAll()), [toString](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#toString()), [wait](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#wait()), [wait](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#wait(long)), [wait](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### Searcher

public **Searcher**()

| **Method Detail** |
| --- |

### linearFind

public static [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) **linearFind**([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) target,  
 [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] list)

Implement a linear search through the list

### binaryFind

public static [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) **binaryFind**([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) target,  
 [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] list)

Method to use a binary search to find a target string in a sorted array of strings

### main

public static void **main**([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] args)

Main for testing binary find

| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/RegionInterface.html)   [**NEXT CLASS**](http://docs.google.com/ShapeComponent.html) | [**FRAMES**](http://docs.google.com/index.html?Searcher.html)    [**NO FRAMES**](http://docs.google.com/Searcher.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |