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listClasses

## Class SortedLinkedList<T>

* java.lang.Object
  + [listClasses.BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<T>
    - listClasses.SortedLinkedList<T>
* All Implemented Interfaces: java.lang.Iterable<T>  
    
  public class SortedLinkedList<T>  
  extends [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<T>  
  Implements a generic sorted list using a provided Comparator. It extends BasicLinkedList class.Author: Dept of Computer Science, UMCP

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [SortedLinkedList](http://docs.google.com/listClasses/SortedLinkedList.html#SortedLinkedList-java.util.Comparator-)(java.util.Comparator<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> comparator) Creates an empty list that is associated with the specified comparator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [SortedLinkedList](http://docs.google.com/listClasses/SortedLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> | * + [add](http://docs.google.com/listClasses/SortedLinkedList.html#add-T-)([T](http://docs.google.com/listClasses/SortedLinkedList.html) element) Inserts the specified element at the correct position in the sorted list. |
| * + [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> | * + [addToEnd](http://docs.google.com/listClasses/SortedLinkedList.html#addToEnd-T-)([T](http://docs.google.com/listClasses/SortedLinkedList.html) data) This operation is invalid for a sorted list. |
| * + [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> | * + [addToFront](http://docs.google.com/listClasses/SortedLinkedList.html#addToFront-T-)([T](http://docs.google.com/listClasses/SortedLinkedList.html) data) This operation is invalid for a sorted list. |
| * + [SortedLinkedList](http://docs.google.com/listClasses/SortedLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> | * + [remove](http://docs.google.com/listClasses/SortedLinkedList.html#remove-T-)([T](http://docs.google.com/listClasses/SortedLinkedList.html) targetData) Implements the remove operation by calling the super class remove method. |

### Methods inherited from class listClasses.[**BasicLinkedList**](http://docs.google.com/listClasses/BasicLinkedList.html)[getFirst](http://docs.google.com/listClasses/BasicLinkedList.html#getFirst--), [getLast](http://docs.google.com/listClasses/BasicLinkedList.html#getLast--), [getReverseArrayList](http://docs.google.com/listClasses/BasicLinkedList.html#getReverseArrayList--), [getReverseList](http://docs.google.com/listClasses/BasicLinkedList.html#getReverseList--), [getSize](http://docs.google.com/listClasses/BasicLinkedList.html#getSize--), [iterator](http://docs.google.com/listClasses/BasicLinkedList.html#iterator--), [remove](http://docs.google.com/listClasses/BasicLinkedList.html#remove-T-java.util.Comparator-), [retrieveFirstElement](http://docs.google.com/listClasses/BasicLinkedList.html#retrieveFirstElement--), [retrieveLastElement](http://docs.google.com/listClasses/BasicLinkedList.html#retrieveLastElement--)

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Methods inherited from interface java.lang.IterableforEach, spliterator

### Constructor Detail

#### SortedLinkedList public SortedLinkedList(java.util.Comparator<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> comparator) Creates an empty list that is associated with the specified comparator. It must call the super class constructor to initialize the appropriate variables.Parameters: comparator -

### Method Detail

#### add public [SortedLinkedList](http://docs.google.com/listClasses/SortedLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> add([T](http://docs.google.com/listClasses/SortedLinkedList.html) element) Inserts the specified element at the correct position in the sorted list. Notice we can insert the same element several times. Your implementation must traverse the list only once in order to perform the insertion. Do not implement this method using iterators. Notice that you don't need to call any of the super class methods in order to implement this method.Parameters: element - Returns: reference to current object.

#### remove public [SortedLinkedList](http://docs.google.com/listClasses/SortedLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> remove([T](http://docs.google.com/listClasses/SortedLinkedList.html) targetData) Implements the remove operation by calling the super class remove method.Parameters: targetData - Returns: reference to current object.

#### addToEnd public [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> addToEnd([T](http://docs.google.com/listClasses/SortedLinkedList.html) data) This operation is invalid for a sorted list. An UnsupportedOperationException will be generated using the message "Invalid operation for sorted list."Overrides: [addToEnd](http://docs.google.com/listClasses/BasicLinkedList.html#addToEnd-T-) in class [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> Parameters: data - Returns: reference to current object Throws: java.lang.UnsupportedOperationException

#### addToFront public [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> addToFront([T](http://docs.google.com/listClasses/SortedLinkedList.html) data) This operation is invalid for a sorted list. An UnsupportedOperationException will be generated using the message "Invalid operation for sorted list."Overrides: [addToFront](http://docs.google.com/listClasses/BasicLinkedList.html#addToFront-T-) in class [BasicLinkedList](http://docs.google.com/listClasses/BasicLinkedList.html)<[T](http://docs.google.com/listClasses/SortedLinkedList.html)> Parameters: data - Returns: reference to current object Throws: java.lang.UnsupportedOperationException

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