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org.apache.commons.collections4.list

## Class TreeList<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [java.util.AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<E>
    - [java.util.AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<E>
      * org.apache.commons.collections4.list.TreeList<E>
* All Implemented Interfaces: [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<E>, [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<E>, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<E>  
    
  public class TreeList<E>  
  extends [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<E>  
  A List implementation that is optimised for fast insertions and removals at any index in the list.  
  This list implementation utilises a tree structure internally to ensure that all insertions and removals are O(log n). This provides much faster performance than both an ArrayList and a LinkedList where elements are inserted and removed repeatedly from anywhere in the list.  
  The following relative performance statistics are indicative of this class:  
   get add insert iterate remove  
   TreeList 3 5 1 2 1  
   ArrayList 1 1 40 1 40  
   LinkedList 5800 1 350 2 325  
     
  ArrayList is a good general purpose list implementation. It is faster than TreeList for most operations except inserting and removing in the middle of the list. ArrayList also uses less memory as TreeList uses one object per entry.  
  LinkedList is rarely a good choice of implementation. TreeList is almost always a good replacement for it, although it does use slightly more memory.Since: 3.1

### Field Summary

### Fields inherited from class java.util.[**AbstractList**](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)[modCount](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#modCount)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [TreeList](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#TreeList--)() Constructs a new empty list. |
| * + [TreeList](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#TreeList-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> coll) Constructs a new empty list that copies the specified collection. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [add](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#add-int-E-)(int index, [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) obj) Adds a new element to the list. |
| * + boolean | * + [addAll](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#addAll-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> c) Appends all of the elements in the specified collection to the end of this list, in the order that they are returned by the specified collection's Iterator. |
| * + void | * + [clear](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#clear--)() Clears the list, removing all entries. |
| * + boolean | * + [contains](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#contains-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Searches for the presence of an object in the list. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) | * + [get](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#get-int-)(int index) Gets the element at the specified index. |
| * + int | * + [indexOf](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#indexOf-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Searches for the index of an object in the list. |
| * + [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> | * + [iterator](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#iterator--)() Gets an iterator over the list. |
| * + [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> | * + [listIterator](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#listIterator--)() Gets a ListIterator over the list. |
| * + [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> | * + [listIterator](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#listIterator-int-)(int fromIndex) Gets a ListIterator over the list. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) | * + [remove](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#remove-int-)(int index) Removes the element at the specified index. |
| * + [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) | * + [set](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#set-int-E-)(int index, [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) obj) Sets the element at the specified index. |
| * + int | * + [size](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#size--)() Gets the current size of the list. |
| * + [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] | * + [toArray](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html#toArray--)() Converts the list into an array. |

### Methods inherited from class java.util.[**AbstractList**](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)[add](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#add-E-), [addAll](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#addAll-int-java.util.Collection-), [equals](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#equals-java.lang.Object-), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#hashCode--), [lastIndexOf](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#lastIndexOf-java.lang.Object-), [removeRange](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#removeRange-int-int-), [subList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#subList-int-int-)

### Methods inherited from class java.util.[**AbstractCollection**](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)[containsAll](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#containsAll-java.util.Collection-), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#isEmpty--), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#remove-java.lang.Object-), [removeAll](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#removeAll-java.util.Collection-), [retainAll](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#retainAll-java.util.Collection-), [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#toArray-T:A-), [toString](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#toString--)

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Methods inherited from interface java.util.[**List**](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)[containsAll](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#containsAll-java.util.Collection-), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#isEmpty--), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#remove-java.lang.Object-), [removeAll](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#removeAll-java.util.Collection-), [replaceAll](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#replaceAll-java.util.function.UnaryOperator-), [retainAll](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#retainAll-java.util.Collection-), [sort](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#sort-java.util.Comparator-), [spliterator](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#spliterator--), [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#toArray-T:A-)

### Methods inherited from interface java.util.[**Collection**](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)[parallelStream](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#parallelStream--), [removeIf](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#removeIf-java.util.function.Predicate-), [stream](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#stream--)

### Methods inherited from interface java.lang.[**Iterable**](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)[forEach](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true#forEach-java.util.function.Consumer-)

### Constructor Detail

#### TreeList public TreeList() Constructs a new empty list.

#### TreeList public TreeList([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> coll) Constructs a new empty list that copies the specified collection.Parameters: coll - the collection to copy Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the collection is null

### Method Detail

#### get public [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) get(int index) Gets the element at the specified index.Specified by: [get](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#get-int-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [get](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#get-int-) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: index - the index to retrieve Returns: the element at the specified index

#### size public int size() Gets the current size of the list.Specified by: [size](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#size--) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [size](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#size--) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [size](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#size--) in class [AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Returns: the current size

#### iterator public [Iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> iterator() Gets an iterator over the list.Specified by: [iterator](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true#iterator--) in interface [Iterable](https://docs.oracle.com/javase/7/docs/api/java/lang/Iterable.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [iterator](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#iterator--) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [iterator](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#iterator--) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [iterator](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#iterator--) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Returns: an iterator over the list

#### listIterator public [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> listIterator() Gets a ListIterator over the list.Specified by: [listIterator](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#listIterator--) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [listIterator](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#listIterator--) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Returns: the new iterator

#### listIterator public [ListIterator](https://docs.oracle.com/javase/7/docs/api/java/util/ListIterator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> listIterator(int fromIndex) Gets a ListIterator over the list.Specified by: [listIterator](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#listIterator-int-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [listIterator](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#listIterator-int-) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: fromIndex - the index to start from Returns: the new iterator

#### indexOf public int indexOf([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Searches for the index of an object in the list.Specified by: [indexOf](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#indexOf-java.lang.Object-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [indexOf](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#indexOf-java.lang.Object-) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: object - the object to search Returns: the index of the object, -1 if not found

#### contains public boolean contains([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Searches for the presence of an object in the list.Specified by: [contains](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#contains-java.lang.Object-) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [contains](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#contains-java.lang.Object-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [contains](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#contains-java.lang.Object-) in class [AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: object - the object to check Returns: true if the object is found

#### toArray public [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[] toArray() Converts the list into an array.Specified by: [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#toArray--) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#toArray--) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [toArray](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#toArray--) in class [AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Returns: the list as an array

#### add public void add(int index, [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) obj) Adds a new element to the list.Specified by: [add](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#add-int-E-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [add](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#add-int-E-) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: index - the index to add before obj - the element to add

#### addAll public boolean addAll([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> c) Appends all of the elements in the specified collection to the end of this list, in the order that they are returned by the specified collection's Iterator. This method runs in O(n + log m) time, where m is the size of this list and n is the size of c.Specified by: [addAll](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#addAll-java.util.Collection-) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [addAll](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#addAll-java.util.Collection-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [addAll](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true#addAll-java.util.Collection-) in class [AbstractCollection](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractCollection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: c - the collection to be added to this list Returns: true if this list changed as a result of the call Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true)

#### set public [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) set(int index, [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) obj) Sets the element at the specified index.Specified by: [set](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#set-int-E-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [set](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#set-int-E-) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: index - the index to set obj - the object to store at the specified index Returns: the previous object at that index Throws: [IndexOutOfBoundsException](https://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html?is-external=true) - if the index is invalid

#### remove public [E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html) remove(int index) Removes the element at the specified index.Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#remove-int-) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#remove-int-) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Parameters: index - the index to remove Returns: the previous object at that index

#### clear public void clear() Clears the list, removing all entries.Specified by: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true#clear--) in interface [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Specified by: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true#clear--) in interface [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)> Overrides: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true#clear--) in class [AbstractList](https://docs.oracle.com/javase/7/docs/api/java/util/AbstractList.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/list/TreeList.html)>

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