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org.apache.commons.collections4.comparators

## Class ReverseComparator<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.comparators.ReverseComparator<E>
* Type Parameters: E - the type of objects compared by this comparator All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<E>  
    
  public class ReverseComparator<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<E>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Reverses the order of another comparator by reversing the arguments to its [compare](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#compare-E-E-) method.Since: 2.0 See Also: [Collections.reverseOrder()](https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html?is-external=true#reverseOrder--), [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.comparators.ReverseComparator)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [ReverseComparator](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#ReverseComparator--)() Creates a comparator that compares objects based on the inverse of their natural ordering. |
| * + [ReverseComparator](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#ReverseComparator-java.util.Comparator-)([Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<? super [E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html)> comparator) Creates a comparator that inverts the comparison of the given comparator. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + int | * + [compare](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#compare-E-E-)([E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html) obj1, [E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html) obj2) Compares two objects in reverse order. |
| * + boolean | * + [equals](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Returns true iff *that* Object is is a [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true) whose ordering is known to be equivalent to mine. |
| * + int | * + [hashCode](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#hashCode--)() Implement a hash code for this comparator that is consistent with [equals](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#equals-java.lang.Object-). |

### 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--), [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--), [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.[**Comparator**](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)[comparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparing-java.util.function.Function-), [comparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparing-java.util.function.Function-java.util.Comparator-), [comparingDouble](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparingDouble-java.util.function.ToDoubleFunction-), [comparingInt](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparingInt-java.util.function.ToIntFunction-), [comparingLong](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#comparingLong-java.util.function.ToLongFunction-), [naturalOrder](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#naturalOrder--), [nullsFirst](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#nullsFirst-java.util.Comparator-), [nullsLast](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#nullsLast-java.util.Comparator-), [reversed](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#reversed--), [reverseOrder](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#reverseOrder--), [thenComparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparing-java.util.Comparator-), [thenComparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparing-java.util.function.Function-), [thenComparing](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparing-java.util.function.Function-java.util.Comparator-), [thenComparingDouble](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparingDouble-java.util.function.ToDoubleFunction-), [thenComparingInt](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparingInt-java.util.function.ToIntFunction-), [thenComparingLong](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#thenComparingLong-java.util.function.ToLongFunction-)

### Constructor Detail

#### ReverseComparator public ReverseComparator() Creates a comparator that compares objects based on the inverse of their natural ordering. Using this Constructor will create a ReverseComparator that is functionally identical to the Comparator returned by java.util.Collections.**reverseOrder()**.See Also: [Collections.reverseOrder()](https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html?is-external=true#reverseOrder--)

#### ReverseComparator public ReverseComparator([Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<? super [E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html)> comparator) Creates a comparator that inverts the comparison of the given comparator. If you pass in null, the ReverseComparator defaults to reversing the natural order, as per [Collections.reverseOrder()](https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html?is-external=true#reverseOrder--).Parameters: comparator - Comparator to reverse

### Method Detail

#### compare public int compare([E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html) obj1, [E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html) obj2) Compares two objects in reverse order.Specified by: [compare](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#compare-T-T-) in interface [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html)> Parameters: obj1 - the first object to compare obj2 - the second object to compare Returns: negative if obj1 is less, positive if greater, zero if equal

#### hashCode public int hashCode() Implement a hash code for this comparator that is consistent with [equals](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html#equals-java.lang.Object-).Overrides: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: a suitable hash code Since: 3.0

#### equals public boolean equals([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) object) Returns true iff *that* Object is is a [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true) whose ordering is known to be equivalent to mine. This implementation returns true iff *object*.[getClass()](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--) equals this.getClass(), and the underlying comparators are equal. Subclasses may want to override this behavior to remain consistent with the [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#equals-java.lang.Object-) contract.Specified by: [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true#equals-java.lang.Object-) in interface [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true)<[E](http://docs.google.com/org/apache/commons/collections4/comparators/ReverseComparator.html)> Overrides: [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Parameters: object - the object to compare to Returns: true if equal Since: 3.0

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