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org.apache.commons.collections4.sequence

## Class SequencesComparator<T>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.sequence.SequencesComparator<T>
* public class SequencesComparator<T>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  This class allows to compare two objects sequences.  
  The two sequences can hold any object type, as only the equals method is used to compare the elements of the sequences. It is guaranteed that the comparisons will always be done as o1.equals(o2) where o1 belongs to the first sequence and o2 belongs to the second sequence. This can be important if subclassing is used for some elements in the first sequence and the equals method is specialized.  
  Comparison can be seen from two points of view: either as giving the smallest modification allowing to transform the first sequence into the second one, or as giving the longest sequence which is a subsequence of both initial sequences. The equals method is used to compare objects, so any object can be put into sequences. Modifications include deleting, inserting or keeping one object, starting from the beginning of the first sequence.  
  This class implements the comparison algorithm, which is the very efficient algorithm from Eugene W. Myers  [An O(ND) Difference Algorithm and Its Variations](http://www.cis.upenn.edu/~bcpierce/courses/dd/papers/diff.ps). This algorithm produces the shortest possible [edit script](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html) containing all the [commands](http://docs.google.com/org/apache/commons/collections4/sequence/EditCommand.html) needed to transform the first sequence into the second one.Since: 4.0 See Also: [EditScript](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html), [EditCommand](http://docs.google.com/org/apache/commons/collections4/sequence/EditCommand.html), [CommandVisitor](http://docs.google.com/org/apache/commons/collections4/sequence/CommandVisitor.html)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [SequencesComparator](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html#SequencesComparator-java.util.List-java.util.List-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence1, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence2) Simple constructor. |
| * + [SequencesComparator](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html#SequencesComparator-java.util.List-java.util.List-org.apache.commons.collections4.Equator-)([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence1, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence2, [Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> equator) Simple constructor. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + [EditScript](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> | * + [getScript](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html#getScript--)() Get the [EditScript](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html) 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--), [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-), [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--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--), [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-)

### Constructor Detail

#### SequencesComparator public SequencesComparator([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence1, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence2) Simple constructor. Creates a new instance of SequencesComparator using a [DefaultEquator](http://docs.google.com/org/apache/commons/collections4/functors/DefaultEquator.html). It is *guaranteed* that the comparisons will always be done as o1.equals(o2) where o1 belongs to the first sequence and o2 belongs to the second sequence. This can be important if subclassing is used for some elements in the first sequence and the equals method is specialized.Parameters: sequence1 - first sequence to be compared sequence2 - second sequence to be compared

#### SequencesComparator public SequencesComparator([List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence1, [List](https://docs.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> sequence2, [Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> equator) Simple constructor. Creates a new instance of SequencesComparator with a custom [Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html). It is *guaranteed* that the comparisons will always be done as Equator.equate(o1, o2) where o1 belongs to the first sequence and o2 belongs to the second sequence.Parameters: sequence1 - first sequence to be compared sequence2 - second sequence to be compared equator - the equator to use for testing object equality

### Method Detail

#### getScript public [EditScript](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html)> getScript() Get the [EditScript](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html) object. It is guaranteed that the objects embedded in the [insert commands](http://docs.google.com/org/apache/commons/collections4/sequence/InsertCommand.html) come from the second sequence and that the objects embedded in either the [delete commands](http://docs.google.com/org/apache/commons/collections4/sequence/DeleteCommand.html) or [keep commands](http://docs.google.com/org/apache/commons/collections4/sequence/KeepCommand.html) come from the first sequence. This can be important if subclassing is used for some elements in the first sequence and the equals method is specialized.Returns: the edit script resulting from the comparison of the two sequences

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