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org.apache.commons.collections4.sequence

## Class EditScript<T>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.sequence.EditScript<T>
* public class EditScript<T>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  This class gathers all the [commands](http://docs.google.com/org/apache/commons/collections4/sequence/EditCommand.html) needed to transform one objects sequence into another objects sequence.  
  An edit script is the most general view of the differences between two sequences. It is built as the result of the comparison between two sequences by the [SequencesComparator](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.html) class. The user can walk through it using the *visitor* design pattern.  
  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.Since: 4.0 See Also: [SequencesComparator](http://docs.google.com/org/apache/commons/collections4/sequence/SequencesComparator.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), [ReplacementsHandler](http://docs.google.com/org/apache/commons/collections4/sequence/ReplacementsHandler.html)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [EditScript](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#EditScript--)() Simple constructor. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [append](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#append-org.apache.commons.collections4.sequence.DeleteCommand-)([DeleteCommand](http://docs.google.com/org/apache/commons/collections4/sequence/DeleteCommand.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> command) Add a delete command to the script. |
| * + void | * + [append](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#append-org.apache.commons.collections4.sequence.InsertCommand-)([InsertCommand](http://docs.google.com/org/apache/commons/collections4/sequence/InsertCommand.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> command) Add an insert command to the script. |
| * + void | * + [append](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#append-org.apache.commons.collections4.sequence.KeepCommand-)([KeepCommand](http://docs.google.com/org/apache/commons/collections4/sequence/KeepCommand.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> command) Add a keep command to the script. |
| * + int | * + [getLCSLength](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#getLCSLength--)() Get the length of the Longest Common Subsequence (LCS). |
| * + int | * + [getModifications](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#getModifications--)() Get the number of effective modifications. |
| * + void | * + [visit](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html#visit-org.apache.commons.collections4.sequence.CommandVisitor-)([CommandVisitor](http://docs.google.com/org/apache/commons/collections4/sequence/CommandVisitor.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> visitor) Visit the script. |

### 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

#### EditScript public EditScript() Simple constructor. Creates a new empty script.

### Method Detail

#### append public void append([KeepCommand](http://docs.google.com/org/apache/commons/collections4/sequence/KeepCommand.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> command) Add a keep command to the script.Parameters: command - command to add

#### append public void append([InsertCommand](http://docs.google.com/org/apache/commons/collections4/sequence/InsertCommand.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> command) Add an insert command to the script.Parameters: command - command to add

#### append public void append([DeleteCommand](http://docs.google.com/org/apache/commons/collections4/sequence/DeleteCommand.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> command) Add a delete command to the script.Parameters: command - command to add

#### visit public void visit([CommandVisitor](http://docs.google.com/org/apache/commons/collections4/sequence/CommandVisitor.html)<[T](http://docs.google.com/org/apache/commons/collections4/sequence/EditScript.html)> visitor) Visit the script. The script implements the *visitor* design pattern, this method is the entry point to which the user supplies its own visitor, the script will be responsible to drive it through the commands in order and call the appropriate method as each command is encountered.Parameters: visitor - the visitor that will visit all commands in turn

#### getLCSLength public int getLCSLength() Get the length of the Longest Common Subsequence (LCS). The length of the longest common subsequence is the number of [keep commands](http://docs.google.com/org/apache/commons/collections4/sequence/KeepCommand.html) in the script.Returns: length of the Longest Common Subsequence

#### getModifications public int getModifications() Get the number of effective modifications. The number of effective modification is the number of [delete](http://docs.google.com/org/apache/commons/collections4/sequence/DeleteCommand.html) and [insert](http://docs.google.com/org/apache/commons/collections4/sequence/InsertCommand.html) commands in the script.Returns: number of effective modifications

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