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org.apache.commons.collections4.functors

## Class SwitchClosure<E>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.functors.SwitchClosure<E>
* All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>  
    
  public class SwitchClosure<E>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  implements [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Closure implementation calls the closure whose predicate returns true, like a switch statement.Since: 3.0 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.functors.SwitchClosure)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [SwitchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#SwitchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> defaultClosure) Constructor that performs no validation. |

### Method SummaryAll Methods Static Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [execute](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#execute-E-)([E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html) input) Executes the closure whose matching predicate returns true |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] | * + [getClosures](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#getClosures--)() Gets the closures. |
| * + [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> | * + [getDefaultClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#getDefaultClosure--)() Gets the default closure. |
| * + [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] | * + [getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#getPredicates--)() Gets the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + [switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E>,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> predicatesAndClosures) Create a new Closure that calls one of the closures depending on the predicates. |
| * + static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> | * + [switchClosure](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html#switchClosure-org.apache.commons.collections4.Predicate:A-org.apache.commons.collections4.Closure:A-org.apache.commons.collections4.Closure-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Factory method that performs validation and copies the parameter arrays. |

### 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

#### SwitchClosure public SwitchClosure([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> defaultClosure) Constructor that performs no validation. Use switchClosure if you want that.Parameters: predicates - array of predicates, cloned, no nulls closures - matching array of closures, cloned, no nulls defaultClosure - the closure to use if no match, null means nop

### Method Detail

#### switchClosure public static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> switchClosure([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super E>[] predicates, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E>[] closures, [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super E> defaultClosure) Factory method that performs validation and copies the parameter arrays.Type Parameters: E - the type that the closure acts on Parameters: predicates - array of predicates, cloned, no nulls closures - matching array of closures, cloned, no nulls defaultClosure - the closure to use if no match, null means nop Returns: the chained closure Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if array is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any element in the array is null [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if the array lengths of predicates and closures do not match

#### switchClosure public static <E> [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E> switchClosure([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<E>,[Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<E>> predicatesAndClosures) Create a new Closure that calls one of the closures depending on the predicates. The Map consists of Predicate keys and Closure values. A closure is called if its matching predicate returns true. Each predicate is evaluated until one returns true. If no predicates evaluate to true, the default closure is called. The default closure is set in the map with a null key. The ordering is that of the iterator() method on the entryset collection of the map.Type Parameters: E - the type that the closure acts on Parameters: predicatesAndClosures - a map of predicates to closures Returns: the switch closure Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the map is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any closure in the map is null [ClassCastException](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassCastException.html?is-external=true) - if the map elements are of the wrong type

#### execute public void execute([E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html) input) Executes the closure whose matching predicate returns trueSpecified by: [execute](http://docs.google.com/org/apache/commons/collections4/Closure.html#execute-T-) in interface [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<[E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> Parameters: input - the input object

#### getPredicates public [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] getPredicates() Gets the predicates.Returns: a copy of the predicates Since: 3.1

#### getClosures public [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)>[] getClosures() Gets the closures.Returns: a copy of the closures Since: 3.1

#### getDefaultClosure public [Closure](http://docs.google.com/org/apache/commons/collections4/Closure.html)<? super [E](http://docs.google.com/org/apache/commons/collections4/functors/SwitchClosure.html)> getDefaultClosure() Gets the default closure.Returns: the default closure Since: 3.1

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