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org.apache.commons.collections4.functors

## Class AllPredicate<T>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.functors.AbstractQuantifierPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)<T>
    - org.apache.commons.collections4.functors.AllPredicate<T>
* All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [PredicateDecorator](http://docs.google.com/org/apache/commons/collections4/functors/PredicateDecorator.html)<T>, [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T>  
    
  public final class AllPredicate<T>  
  extends [AbstractQuantifierPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)<T>  
  Predicate implementation that returns true if all the predicates return true. If the array of predicates is empty, then this predicate returns true.  
  NOTE: In versions prior to 3.2 an array size of zero or one threw an exception.Since: 3.0 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.functors.AllPredicate)

### Field Summary

### Fields inherited from class org.apache.commons.collections4.functors.[**AbstractQuantifierPredicate**](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)[iPredicates](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html#iPredicates)

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [AllPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#AllPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html)>... predicates) Constructor that performs no validation. |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + [allPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#allPredicate-java.util.Collection-)([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. |
| * + static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> | * + [allPredicate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#allPredicate-org.apache.commons.collections4.Predicate...-)([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. |
| * + boolean | * + [evaluate](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html#evaluate-T-)([T](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html) object) Evaluates the predicate returning true if all predicates return true. |

### Methods inherited from class org.apache.commons.collections4.functors.[**AbstractQuantifierPredicate**](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html)[getPredicates](http://docs.google.com/org/apache/commons/collections4/functors/AbstractQuantifierPredicate.html#getPredicates--)

### 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

#### AllPredicate public AllPredicate([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super [T](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html)>... predicates) Constructor that performs no validation. Use allPredicate if you want that.Parameters: predicates - the predicates to check, not cloned, not null

### Method Detail

#### allPredicate public static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> allPredicate([Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>... predicates) Factory to create the predicate. If the array is size zero, the predicate always returns true. If the array is size one, then that predicate is returned.Type Parameters: T - the type that the predicate queries Parameters: predicates - the predicates to check, cloned, not null Returns: the all predicate Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the predicates array is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any predicate in the array is null

#### allPredicate public static <T> [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<T> allPredicate([Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<? extends [Predicate](http://docs.google.com/org/apache/commons/collections4/Predicate.html)<? super T>> predicates) Factory to create the predicate. If the collection is size zero, the predicate always returns true. If the collection is size one, then that predicate is returned.Type Parameters: T - the type that the predicate queries Parameters: predicates - the predicates to check, cloned, not null Returns: the all predicate Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the predicates array is null [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if any predicate in the array is null

#### evaluate public boolean evaluate([T](http://docs.google.com/org/apache/commons/collections4/functors/AllPredicate.html) object) Evaluates the predicate returning true if all predicates return true.Parameters: object - the input object Returns: true if all decorated predicates return true

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