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org.apache.commons.collections4.map

## Class FixedSizeSortedMap<K,V>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.map.AbstractIterableMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractIterableMap.html)<K,V>
    - [org.apache.commons.collections4.map.AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<K,V>
      * [org.apache.commons.collections4.map.AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<K,V>
        + org.apache.commons.collections4.map.FixedSizeSortedMap<K,V>
* Type Parameters: K - the type of the keys in this map V - the type of the values in this map All Implemented Interfaces: [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true), [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<K,V>, [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V>, [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<K,V>, [IterableGet](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)<K,V>, [IterableMap](http://docs.google.com/org/apache/commons/collections4/IterableMap.html)<K,V>, [IterableSortedMap](http://docs.google.com/org/apache/commons/collections4/IterableSortedMap.html)<K,V>, [OrderedMap](http://docs.google.com/org/apache/commons/collections4/OrderedMap.html)<K,V>, [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<K,V>  
    
  public class FixedSizeSortedMap<K,V>  
  extends [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<K,V>  
  implements [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<K,V>, [Serializable](https://docs.oracle.com/javase/7/docs/api/java/io/Serializable.html?is-external=true)  
  Decorates another SortedMap to fix the size blocking add/remove.  
  Any action that would change the size of the map is disallowed. The put method is allowed to change the value associated with an existing key however.  
  If trying to remove or clear the map, an UnsupportedOperationException is thrown. If trying to put a new mapping into the map, an IllegalArgumentException is thrown. This is because the put method can succeed if the mapping's key already exists in the map, so the put method is not always unsupported.  
  **Note that FixedSizeSortedMap is not synchronized and is not thread-safe.** If you wish to use this map from multiple threads concurrently, you must use appropriate synchronization. The simplest approach is to wrap this map using [Collections.synchronizedSortedMap(java.util.SortedMap<K, V>)](https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html?is-external=true#synchronizedSortedMap-java.util.SortedMap-). This class may throw exceptions when accessed by concurrent threads without synchronization.  
  This class is Serializable from Commons Collections 3.1.Since: 3.0 See Also: [Serialized Form](http://docs.google.com/serialized-form.html#org.apache.commons.collections4.map.FixedSizeSortedMap)

### Nested Class Summary

### Nested classes/interfaces inherited from class org.apache.commons.collections4.map.[**AbstractSortedMapDecorator**](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)[AbstractSortedMapDecorator.SortedMapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html),[V](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.SortedMapIterator.html)>

### Nested classes/interfaces inherited from interface java.util.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true),[V](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)>

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [FixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#FixedSizeSortedMap-java.util.SortedMap-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> map) Constructor that wraps (not copies). |

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

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + void | * + [clear](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#clear--)() |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)>> | * + [entrySet](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#entrySet--)() |
| * + static <K,V> [FixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)<K,V> | * + [fixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#fixedSizeSortedMap-java.util.SortedMap-)([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map) Factory method to create a fixed size sorted map. |
| * + protected [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> | * + [getSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#getSortedMap--)() Gets the map being decorated. |
| * + [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> | * + [headMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#headMap-K-)([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) toKey) |
| * + boolean | * + [isFull](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#isFull--)() Returns true if this map is full and no new elements can be added. |
| * + [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> | * + [keySet](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#keySet--)() |
| * + int | * + [maxSize](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#maxSize--)() Gets the maximum size of the map (the bound). |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) | * + [put](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#put-K-V-)([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) value) Note that the return type is Object, rather than V as in the Map interface. |
| * + void | * + [putAll](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#putAll-java.util.Map-)([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> mapToCopy) |
| * + [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) | * + [remove](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#remove-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key) |
| * + [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> | * + [subMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#subMap-K-K-)([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) fromKey, [K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) toKey) |
| * + [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> | * + [tailMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#tailMap-K-)([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) fromKey) |
| * + [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> | * + [values](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html#values--)() |

### Methods inherited from class org.apache.commons.collections4.map.[**AbstractSortedMapDecorator**](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)[comparator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#comparator--), [decorated](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#decorated--), [firstKey](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#firstKey--), [lastKey](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#lastKey--), [mapIterator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#mapIterator--), [nextKey](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#nextKey-K-), [previousKey](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#previousKey-K-)

### Methods inherited from class org.apache.commons.collections4.map.[**AbstractMapDecorator**](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)[containsKey](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#containsKey-java.lang.Object-), [containsValue](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#containsValue-java.lang.Object-), [equals](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#equals-java.lang.Object-), [get](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#get-java.lang.Object-), [hashCode](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#hashCode--), [isEmpty](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#isEmpty--), [size](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#size--), [toString](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#toString--)

### 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--), [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.[**Map**](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)[compute](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#compute-K-java.util.function.BiFunction-), [computeIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfAbsent-K-java.util.function.Function-), [computeIfPresent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#computeIfPresent-K-java.util.function.BiFunction-), [containsKey](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsKey-java.lang.Object-), [containsValue](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#containsValue-java.lang.Object-), [equals](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#equals-java.lang.Object-), [forEach](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#forEach-java.util.function.BiConsumer-), [get](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#get-java.lang.Object-), [getOrDefault](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#getOrDefault-java.lang.Object-V-), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#hashCode--), [isEmpty](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#isEmpty--), [merge](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#merge-K-V-java.util.function.BiFunction-), [putIfAbsent](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putIfAbsent-K-V-), [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-java.lang.Object-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-), [replace](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replace-K-V-V-), [replaceAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#replaceAll-java.util.function.BiFunction-), [size](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#size--)

### Methods inherited from interface org.apache.commons.collections4.[**IterableGet**](http://docs.google.com/org/apache/commons/collections4/IterableGet.html)[mapIterator](http://docs.google.com/org/apache/commons/collections4/IterableGet.html#mapIterator--)

### Methods inherited from interface org.apache.commons.collections4.[**Get**](http://docs.google.com/org/apache/commons/collections4/Get.html)[containsKey](http://docs.google.com/org/apache/commons/collections4/Get.html#containsKey-java.lang.Object-), [containsValue](http://docs.google.com/org/apache/commons/collections4/Get.html#containsValue-java.lang.Object-), [get](http://docs.google.com/org/apache/commons/collections4/Get.html#get-java.lang.Object-), [isEmpty](http://docs.google.com/org/apache/commons/collections4/Get.html#isEmpty--), [size](http://docs.google.com/org/apache/commons/collections4/Get.html#size--)

### Constructor Detail

#### FixedSizeSortedMap protected FixedSizeSortedMap([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> map) Constructor that wraps (not copies).Parameters: map - the map to decorate, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null

### Method Detail

#### fixedSizeSortedMap public static <K,V> [FixedSizeSortedMap](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)<K,V> fixedSizeSortedMap([SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<K,V> map) Factory method to create a fixed size sorted map.Type Parameters: K - the key type V - the value type Parameters: map - the map to decorate, must not be null Returns: a new fixed size sorted map Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if map is null Since: 4.0

#### getSortedMap protected [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> getSortedMap() Gets the map being decorated.Returns: the decorated map

#### put public [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) put([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) key, [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) value) Description copied from interface: [Put](http://docs.google.com/org/apache/commons/collections4/Put.html#put-K-V-) Note that the return type is Object, rather than V as in the Map interface. See the class Javadoc for further info.Specified by: [put](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [put](http://docs.google.com/org/apache/commons/collections4/Put.html#put-K-V-) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [put](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#put-K-V-) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Parameters: key - key with which the specified value is to be associated value - value to be associated with the specified key Returns: the previous value associated with key, or null if there was no mapping for key. (A null return can also indicate that the map previously associated null with key, if the implementation supports null values.) See Also: [Map.put(Object, Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#put-K-V-)

#### putAll public void putAll([Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> mapToCopy)Specified by: [putAll](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [putAll](http://docs.google.com/org/apache/commons/collections4/Put.html#putAll-java.util.Map-) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [putAll](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#putAll-java.util.Map-) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Parameters: mapToCopy - mappings to be stored in this map See Also: [Map.putAll(Map)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#putAll-java.util.Map-)

#### clear public void clear()Specified by: [clear](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [clear](http://docs.google.com/org/apache/commons/collections4/Put.html#clear--) in interface [Put](http://docs.google.com/org/apache/commons/collections4/Put.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [clear](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#clear--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> See Also: [Map.clear()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#clear--)

#### remove public [V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) remove([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) key)Specified by: [remove](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [remove](http://docs.google.com/org/apache/commons/collections4/Get.html#remove-java.lang.Object-) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [remove](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#remove-java.lang.Object-) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Parameters: key - key whose mapping is to be removed from the map Returns: the previous value associated with key, or null if there was no mapping for key. See Also: [Map.remove(Object)](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#remove-java.lang.Object-)

#### entrySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)>> entrySet()Specified by: [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [entrySet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true#entrySet--) in interface [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [entrySet](http://docs.google.com/org/apache/commons/collections4/Get.html#entrySet--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [entrySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#entrySet--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Returns: a set view of the mappings contained in this map See Also: [Map.entrySet()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#entrySet--)

#### keySet public [Set](https://docs.oracle.com/javase/7/docs/api/java/util/Set.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> keySet()Specified by: [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [keySet](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true#keySet--) in interface [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [keySet](http://docs.google.com/org/apache/commons/collections4/Get.html#keySet--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [keySet](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#keySet--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Returns: a set view of the keys contained in this map See Also: [Map.keySet()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#keySet--)

#### values public [Collection](https://docs.oracle.com/javase/7/docs/api/java/util/Collection.html?is-external=true)<[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> values()Specified by: [values](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--) in interface [Map](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [values](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true#values--) in interface [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Specified by: [values](http://docs.google.com/org/apache/commons/collections4/Get.html#values--) in interface [Get](http://docs.google.com/org/apache/commons/collections4/Get.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [values](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html#values--) in class [AbstractMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Returns: a collection view of the values contained in this map See Also: [Map.values()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.html?is-external=true#values--)

#### subMap public [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> subMap([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) fromKey, [K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) toKey)Specified by: [subMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true#subMap-K-K-) in interface [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [subMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#subMap-K-K-) in class [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)>

#### headMap public [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> headMap([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) toKey)Specified by: [headMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true#headMap-K-) in interface [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [headMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#headMap-K-) in class [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)>

#### tailMap public [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> tailMap([K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html) fromKey)Specified by: [tailMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true#tailMap-K-) in interface [SortedMap](https://docs.oracle.com/javase/7/docs/api/java/util/SortedMap.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Overrides: [tailMap](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html#tailMap-K-) in class [AbstractSortedMapDecorator](http://docs.google.com/org/apache/commons/collections4/map/AbstractSortedMapDecorator.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)>

#### isFull public boolean isFull() Description copied from interface: [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html#isFull--) Returns true if this map is full and no new elements can be added.Specified by: [isFull](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html#isFull--) in interface [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Returns: true if the map is full

#### maxSize public int maxSize() Description copied from interface: [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html#maxSize--) Gets the maximum size of the map (the bound).Specified by: [maxSize](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html#maxSize--) in interface [BoundedMap](http://docs.google.com/org/apache/commons/collections4/BoundedMap.html)<[K](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html),[V](http://docs.google.com/org/apache/commons/collections4/map/FixedSizeSortedMap.html)> Returns: the maximum number of elements the map can hold

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