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016 \*/  
017package org.apache.commons.collections4.iterators;  
018  
019import org.apache.commons.collections4.MapIterator;  
020  
021/\*\*  
022 \* Provides basic behaviour for decorating a map iterator with extra functionality.  
023 \* <p>  
024 \* All methods are forwarded to the decorated map iterator.  
025 \*  
026 \* @param <K> the type of keys  
027 \* @param <V> the type of mapped values  
028 \* @since 3.0  
029 \*/  
030public class AbstractMapIteratorDecorator<K, V> implements MapIterator<K, V> {  
031  
032 /\*\* The iterator being decorated \*/  
033 private final MapIterator<K, V> iterator;  
034  
035 //-----------------------------------------------------------------------  
036 /\*\*  
037 \* Constructor that decorates the specified iterator.  
038 \*  
039 \* @param iterator the iterator to decorate, must not be null  
040 \* @throws NullPointerException if the iterator is null  
041 \*/  
042 public AbstractMapIteratorDecorator(final MapIterator<K, V> iterator) {  
043 super();  
044 if (iterator == null) {  
045 throw new NullPointerException("MapIterator must not be null");  
046 }  
047 this.iterator = iterator;  
048 }  
049  
050 /\*\*  
051 \* Gets the iterator being decorated.  
052 \*  
053 \* @return the decorated iterator  
054 \*/  
055 protected MapIterator<K, V> getMapIterator() {  
056 return iterator;  
057 }  
058  
059 //-----------------------------------------------------------------------  
060  
061 /\*\* {@inheritDoc} \*/  
062 @Override  
063 public boolean hasNext() {  
064 return iterator.hasNext();  
065 }  
066  
067 /\*\* {@inheritDoc} \*/  
068 @Override  
069 public K next() {  
070 return iterator.next();  
071 }  
072  
073 /\*\* {@inheritDoc} \*/  
074 @Override  
075 public void remove() {  
076 iterator.remove();  
077 }  
078  
079 /\*\* {@inheritDoc} \*/  
080 @Override  
081 public K getKey() {  
082 return iterator.getKey();  
083 }  
084  
085 /\*\* {@inheritDoc} \*/  
086 @Override  
087 public V getValue() {  
088 return iterator.getValue();  
089 }  
090  
091 /\*\* {@inheritDoc} \*/  
092 @Override  
093 public V setValue(final V obj) {  
094 return iterator.setValue(obj);  
095 }  
096  
097}