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016 \*/  
017package org.apache.commons.collections4.iterators;  
018  
019import java.util.Iterator;  
020  
021import org.apache.commons.collections4.ResettableIterator;  
022  
023/\*\*  
024 \* Provides an implementation of an empty iterator.  
025 \* <p>  
026 \* This class provides an implementation of an empty iterator.  
027 \* This class provides for binary compatibility between Commons Collections  
028 \* 2.1.1 and 3.1 due to issues with <code>IteratorUtils</code>.  
029 \*  
030 \* @since 2.1.1 and 3.1  
031 \*/  
032public class EmptyIterator<E> extends AbstractEmptyIterator<E> implements ResettableIterator<E> {  
033  
034 /\*\*  
035 \* Singleton instance of the iterator.  
036 \* @since 3.1  
037 \*/  
038 @SuppressWarnings("rawtypes")  
039 public static final ResettableIterator RESETTABLE\_INSTANCE = new EmptyIterator<>();  
040  
041 /\*\*  
042 \* Singleton instance of the iterator.  
043 \* @since 2.1.1 and 3.1  
044 \*/  
045 @SuppressWarnings("rawtypes")  
046 public static final Iterator INSTANCE = RESETTABLE\_INSTANCE;  
047  
048 /\*\*  
049 \* Get a typed resettable empty iterator instance.  
050 \* @param <E> the element type  
051 \* @return ResettableIterator<E>  
052 \*/  
053 public static <E> ResettableIterator<E> resettableEmptyIterator() {  
054 return RESETTABLE\_INSTANCE;  
055 }  
056  
057 /\*\*  
058 \* Get a typed empty iterator instance.  
059 \* @param <E> the element type  
060 \* @return Iterator<E>  
061 \*/  
062 public static <E> Iterator<E> emptyIterator() {  
063 return INSTANCE;  
064 }  
065  
066 /\*\*  
067 \* Constructor.  
068 \*/  
069 protected EmptyIterator() {  
070 super();  
071 }  
072  
073}