

TABLE 4.4The `java.util.ListIterator<E>` Interface

Method	Behavior
<code>void add(E obj)</code>	Inserts object <code>obj</code> into the list just before the item that would be returned by the next call to method <code>next</code> and after the item that would have been returned by method <code>previous</code> . If method <code>previous</code> is called after <code>add</code> , the newly inserted object will be returned.
<code>boolean hasNext()</code>	Returns true if <code>next</code> will not throw an exception.
<code>boolean hasPrevious()</code>	Returns true if <code>previous</code> will not throw an exception.
<code>E next()</code>	Returns the next object and moves the iterator forward. If the iterator is at the end, the <code>NoSuchElementException</code> is thrown.
<code>int nextIndex()</code>	Returns the index of the item that will be returned by the next call to <code>next</code> . If the iterator is at the end, the list size is returned.
<code>E previous()</code>	Returns the previous object and moves the iterator backward. If the iterator is at the beginning of the list, the <code>NoSuchElementException</code> is thrown.
<code>int previousIndex()</code>	Returns the index of the item that will be returned by the next call to <code>previous</code> . If the iterator is at the beginning of the list, <code>-1</code> is returned.
<code>void remove()</code>	Removes the last item returned from a call to <code>next</code> or <code>previous</code> . If a call to <code>remove</code> is not preceded by a call to <code>next</code> or <code>previous</code> , the <code>IllegalStateException</code> is thrown.
<code>void set(E obj)</code>	Replaces the last item returned from a call to <code>next</code> or <code>previous</code> with <code>obj</code> . If a call to <code>set</code> is not preceded by a call to <code>next</code> or <code>previous</code> , the <code>IllegalStateException</code> is thrown.