**The Itr class is a private Inner Class found in the AbstractList class**  
private class Itr implements Iterator<E> {  
 /\*\*  
 \* Index of element to be returned by subsequent call to next.  
 \*/  
 int cursor = 0;  
  
 /\*\*  
 \* Index of element returned by most recent call to next or  
 \* previous. Reset to -1 if this element is deleted by a call  
 \* to remove.  
 \*/  
 int lastRet = -1;  
  
 /\*\*  
 \* The modCount value that the iterator believes that the backing  
 \* List should have. If this expectation is violated, the iterator  
 \* has detected concurrent modification.  
 \*/  
 int expectedModCount = modCount;  
  
 public boolean hasNext()   
 {  
 return cursor != size();  
 }  
  
 public E next()   
 {  
 checkForComodification();  
 try   
 {  
 E next = get(cursor);  
 lastRet = cursor++;  
 return next;  
 }   
 catch (IndexOutOfBoundsException e)   
 {  
 checkForComodification();  
 throw new NoSuchElementException();  
 }  
 }  
  
 public void remove()   
 {  
 if (lastRet == -1)  
 throw new IllegalStateException();  
 checkForComodification();  
  
 try   
 {  
 AbstractList.this.remove(lastRet);  
 if (lastRet < cursor)  
 cursor--;  
 lastRet = -1;  
 expectedModCount = modCount;  
 }   
 catch (IndexOutOfBoundsException e)   
 {  
 throw new ConcurrentModificationException();  
 }  
 }  
  
 final void checkForComodification()   
 {  
 if (modCount != expectedModCount)  
 throw new ConcurrentModificationException();  
 }  
 }

// The ListItr class is a subclass of the Itr class and is also a private  
// Inner Class found in the AbstractList class  
  
private class ListItr extends Itr implements ListIterator<E>   
{  
 ListItr(int index)   
 {  
 cursor = index;  
 }  
  
 public boolean hasPrevious()   
 {  
 return cursor != 0;  
 }  
  
 public E previous()   
 {  
 checkForComodification();  
 try   
 {  
 int i = cursor - 1;  
 E previous = get(i);  
 lastRet = cursor = i;  
 return previous;  
 }   
 catch (IndexOutOfBoundsException e)   
 {  
 checkForComodification();  
 throw new NoSuchElementException();  
 }  
 }  
  
 public int nextIndex()   
 {  
 return cursor;  
 }  
  
 public int previousIndex()   
 {  
 return cursor-1;  
 }  
  
 public void set(E e)   
 {  
 if (lastRet == -1)  
 throw new IllegalStateException();  
 checkForComodification();  
  
 try   
 {  
 AbstractList.this.set(lastRet, e);  
 expectedModCount = modCount;  
 }   
 catch (IndexOutOfBoundsException ex)   
 {  
 throw new ConcurrentModificationException();  
 }  
 }  
   
 public void add(E e)   
 {  
 checkForComodification();  
  
 try   
 {  
 AbstractList.this.add(cursor++, e);  
 lastRet = -1;  
 expectedModCount = modCount;  
 }   
 catch (IndexOutOfBoundsException ex)   
 {  
 throw new ConcurrentModificationException();  
 }  
 }  
}