

- *Constructor Summary*

### Constructors

#### Constructor and Description

[LinkedList\(\)](#)

Constructs an empty list.

[LinkedList\(Collection](#)<? extends [E](#)> c)

Constructs a list containing the elements of the specified collection, in the order they are returned by the collection's iterator.

- *Method Summary*

### All MethodsInstance MethodsConcrete Methods

#### Modifier and Type

#### Method and Description

boolean

[add](#)([E](#) e)

Appends the specified element to the end of this list.

void

[add](#)(int index, [E](#) element)

Inserts the specified element at the specified position in this list.

boolean

[addAll](#)([Collection](#)<? extends [E](#)> c)

Appends all of the elements in the specified collection to the end of this list, in the order returned by the specified collection's iterator.

boolean

[addAll](#)(int index, [Collection](#)<? extends [E](#)> c)

Inserts all of the elements in the specified collection into this list, starting at the specified position.

void

[addFirst](#)([E](#) e)

Inserts the specified element at the beginning of this list.

void

[addLast](#)([E](#) e)

Appends the specified element to the end of this list.

void	<a href="#"><u>clear()</u></a> Removes all of the elements from this list.
<a href="#"><u>Object</u></a>	<a href="#"><u>clone()</u></a> Returns a shallow copy of this <code>LinkedList</code> .
boolean	<a href="#"><u>contains(Object o)</u></a> Returns <code>true</code> if this list contains the specified element.
<a href="#"><u>Iterator&lt;E&gt;</u></a>	<a href="#"><u>descendingIterator()</u></a> Returns an iterator over the elements in this deque in reverse sequential order.
<a href="#"><u>E</u></a>	<a href="#"><u>element()</u></a> Retrieves, but does not remove, the head (first element) of this list.
<a href="#"><u>E</u></a>	<a href="#"><u>get(int index)</u></a> Returns the element at the specified position in this list.
<a href="#"><u>E</u></a>	<a href="#"><u>getFirst()</u></a> Returns the first element in this list.
<a href="#"><u>E</u></a>	<a href="#"><u>getLast()</u></a> Returns the last element in this list.
int	<a href="#"><u>indexOf(Object o)</u></a> Returns the index of the first occurrence of the specified element in this list, or <code>-1</code> if the element is not present.
int	<a href="#"><u>lastIndexOf(Object o)</u></a> Returns the index of the last occurrence of the specified element in this list, or <code>-1</code> if the element is not present.
<a href="#"><u>ListIterator&lt;E&gt;</u></a>	<a href="#"><u>listIterator(int index)</u></a> Returns a list-iterator of the elements in this list (in proper sequence), starting at the specified index.
boolean	<a href="#"><u>offer(E e)</u></a> Adds the specified element as the tail (last element) of this list.

boolean	<a href="#"><u>offerFirst</u></a> ( <a href="#"><u>E</u></a> e)	Inserts the specified element at the front of this list.
boolean	<a href="#"><u>offerLast</u></a> ( <a href="#"><u>E</u></a> e)	Inserts the specified element at the end of this list.
<a href="#"><u>E</u></a>	<a href="#"><u>peek</u></a> ()	Retrieves, but does not remove, the head (first element) of this list.
<a href="#"><u>E</u></a>	<a href="#"><u>peekFirst</u></a> ()	Retrieves, but does not remove, the first element of this list, or returns <code>null</code> if the list is empty.
<a href="#"><u>E</u></a>	<a href="#"><u>peekLast</u></a> ()	Retrieves, but does not remove, the last element of this list, or returns <code>null</code> if the list is empty.
<a href="#"><u>E</u></a>	<a href="#"><u>poll</u></a> ()	Retrieves and removes the head (first element) of this list.
<a href="#"><u>E</u></a>	<a href="#"><u>pollFirst</u></a> ()	Retrieves and removes the first element of this list, or returns <code>null</code> if the list is empty.
<a href="#"><u>E</u></a>	<a href="#"><u>pollLast</u></a> ()	Retrieves and removes the last element of this list, or returns <code>null</code> if the list is empty.
<a href="#"><u>E</u></a>	<a href="#"><u>pop</u></a> ()	Pops an element from the stack represented by this list.
void	<a href="#"><u>push</u></a> ( <a href="#"><u>E</u></a> e)	Pushes an element onto the stack represented by this list.
<a href="#"><u>E</u></a>	<a href="#"><u>remove</u></a> ()	Retrieves and removes the head (first element) of this list.
<a href="#"><u>E</u></a>	<a href="#"><u>remove</u></a> (int index)	Removes the element at the specified position in this list.
boolean	<a href="#"><u>remove</u></a> ( <a href="#"><u>Object</u></a> o)	Removes the first occurrence of the specified element from this list, if it is present.

	Removes the first occurrence of the specified element from this list, if it is present.
<u>E</u>	<u><a href="#">removeFirst()</a></u> Removes and returns the first element from this list.
boolean	<u><a href="#">removeFirstOccurrence(Object o)</a></u> Removes the first occurrence of the specified element in this list (when true, removes the element; when false, does nothing).
<u>E</u>	<u><a href="#">removeLast()</a></u> Removes and returns the last element from this list.
boolean	<u><a href="#">removeLastOccurrence(Object o)</a></u> Removes the last occurrence of the specified element in this list (when true, removes the element; when false, does nothing).
<u>E</u>	<u><a href="#">set(int index, E element)</a></u> Replaces the element at the specified position in this list with the specified element.
int	<u><a href="#">size()</a></u> Returns the number of elements in this list.
<u><a href="#">Spliterator&lt;E&gt;</a></u>	<u><a href="#">spliterator()</a></u> Creates a <i>late-binding</i> and <i>fail-fast</i> <b>Spliterator</b> over the elements in this list.
<u><a href="#">Object[]</a></u>	<u><a href="#">toArray()</a></u> Returns an array containing all of the elements in this list in proper sequence.
<T> T[]	<u><a href="#">toArray(T[] a)</a></u> Returns an array containing all of the elements in this list in proper sequence. The runtime type of the returned array is that of the specified array.

- Methods inherited from class java.util.[AbstractSequentialList](#)

[Iterator](#)

- Methods inherited from class java.util.[AbstractList](#)

[equals](#), [hashCode](#), [listIterator](#), [removeRange](#), [subList](#)

- Methods inherited from class java.util.[AbstractCollection](#)

[containsAll](#), [isEmpty](#), [removeAll](#), [retainAll](#), [toString](#)

- Methods inherited from class java.lang.[Object](#)

[finalize](#), [getClass](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

- Methods inherited from interface java.util.[List](#)

[containsAll](#), [equals](#), [hashCode](#), [isEmpty](#), [iterator](#), [listIterator](#), [removeAll](#), [replaceAll](#), [retainAll](#), [sort](#), [subList](#)

- Methods inherited from interface java.util.[Deque](#)

[iterator](#)

- Methods inherited from interface java.util.[Collection](#)

[parallelStream](#), [removeIf](#), [stream](#)

- Methods inherited from interface java.lang.[Iterable](#)

[forEach](#)