**Java – LinkedList poll(), pollFirst() and pollLast() methods**

[**JAVA.UTIL PACKAGE**](http://beginnersbook.com/category/java-util-package/)

**Description**

Example Programs for poll(), pollFirst() and pollLast() methods of LinkedList class.

**LinkedList.poll()**

Retrieves and removes the head (first element) of this list.

import java.util.LinkedList;

class LinkedListPollMethod{

public static void main(String[] args) {

// Create a LinkedList of Strings

LinkedList<String> list = new LinkedList<String>();

// Add few Elements

list.add("Element1");

list.add("Element2");

list.add("Element3");

list.add("Element4");

// Display LinkList elements

System.out.println("LinkedList before: "+list);

/\* poll(): Retrieves and removes the head (first element)

\* of this list.

\*/

System.out.println("Element removed: "+list.poll());

// Displaying list elements after poll() operation

System.out.println("LinkedList after: "+list);

}

}

**Output:**

LinkedList before: [Element1, Element2, Element3, Element4]

Element removed: Element1

LinkedList after: [Element2, Element3, Element4]

**LinkedList.pollFirst()**

public E pollFirst(): Retrieves and removes the first element of this list, or returns null if this list is empty.

import java.util.LinkedList;

class LinkedListPollFirstDemo{

public static void main(String[] args) {

// Create a LinkedList of Strings

LinkedList<String> list = new LinkedList<String>();

// Add few Elements

list.add("Element1");

list.add("Element2");

list.add("Element3");

list.add("Element4");

// Display LinkList elements

System.out.println("LinkedList before: "+list);

/\* pollFirst(): Retrieves and removes the first element

\* of this list, or returns null if this list is empty.

\*/

System.out.println("Element removed: "+list.pollFirst());

// Display list after calling pollFirst() method

System.out.println("LinkedList after: "+list);

}

}

**Output:**

LinkedList before: [Element1, Element2, Element3, Element4]

Element removed: Element1

LinkedList after: [Element2, Element3, Element4]

**LinkedList.pollLast()**

public E pollLast(): Retrieves and removes the last element of this list, or returns null if this list is empty.

import java.util.LinkedList;

class LinkedListPollLastDemo{

public static void main(String[] args) {

// Create a LinkedList of Strings

LinkedList<String> list = new LinkedList<String>();

// Add few Elements

list.add("Element1");

list.add("Element2");

list.add("Element3");

list.add("Element4");

// Display LinkList elements

System.out.println("LinkedList before: "+list);

/\* pollFirst(): Retrieves and removes the first element

\* of this list, or returns null if this list is empty.

\*/

System.out.println("Element removed: "+list.pollLast());

// Display after calling pollLast() method

System.out.println("LinkedList after: "+list);

}

}

**Output:**

LinkedList before: [Element1, Element2, Element3, Element4]

Element removed: Element4

LinkedList after: [Element1, Element2, Element3]