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//Program to demonstrate LinkedList class
package com.tnsif.collection.list;

import java.util.Collections;
import java.util.LinkedList;
import java.util.ListIterator;

public class LinkedListDemo {

 public static void main(String[] args) {
  LinkedList<Integer> ll = new LinkedList<Integer>();
  ll.add(10);
  ll.add(20);
  ll.add(40);
  ll.addFirst(5);
  ll.add(2, 60);
  ll.addLast(25);
  ll.add(30);

  System.out.println("Number List is " + ll);

  System.out.println("First Element is " + ll.getFirst());
  System.out.println("Last Element is " + ll.getLast());

  ll.removeFirst();
  ll.removeLast();

  System.out.println("Number List after removing first and
last element is " + ll);

  ListIterator<Integer> li = ll.listIterator();

  while (li.hasNext())
   System.out.print(li.next() + "\t");
```

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 li = ll.listIterator(ll.size());
 while (li.hasPrevious()) {
  int n = li.previous();
  System.out.print(n + "\t");
  if (n == 20)
   li.add(99999);
  if (n == 60)
   li.set(5555);
 }

 System.out.println("Number List is " + ll);

 Collections.sort(ll);
 System.out.println("Number List in Ascending order is " +
ll);

 Collections.reverse(ll);
 System.out.println("Number List in Descending order is "
 + ll);

  }
 }
```