package com;  
  
import java.util.Scanner;  
  
public class LinkedList {  
  
 static class Node{  
 int data;  
 Node next;  
 }static Node head = null;static Node tail = null;  
  
 static void addNode(int val){  
 Node node = new Node();  
 node.data = val;  
 if(head == null) {  
 node.next = null;  
 head = node;  
 tail = node;  
 }  
 else{  
 node.next = null;  
 tail.next = node;  
 tail = tail.next;  
 }  
 }  
  
 static void addPos(int val, int pos){  
 Node node = new Node();  
 node.data = val;  
 if(head == null){  
 node.next = null;  
 head = node;  
 tail = node;  
 }  
 else{  
 Node temp = head;  
 while(pos > 2) {  
 temp = temp.next;  
 pos--;  
 }  
 node.next = temp.next;  
 temp.next = node;  
 }  
 }  
  
 static void display(){  
 if(head == null)  
 System.out.println("Its empty");  
 else{  
 Node temp = head;  
 while(temp != null){  
 System.out.print(temp.data + " -> ");  
 temp = temp.next;  
 }  
 System.out.println("END");  
 }  
 }  
  
  
 void delete(int p){  
  
 if(p==1){  
 head=head.next;  
 }  
 else if(p==2){  
 head.next=head.next.next;  
 }  
 else{  
 Node ptr1=head;  
 Node ptr2=head.next;  
 while(p>2){  
 ptr1=ptr2;  
 ptr2=ptr2.next;  
 p--;  
 }  
 }  
  
  
  
  
 }  
  
  
 public static void main(String[] args) {  
 LinkedList list = new LinkedList();  
 list.addNode(5);  
 list.addNode(3);  
 list.addNode(8);  
 list.addNode(7);  
  
 list.addPos(0,2);  
  
  
  
  
// System.out.println("The list is");  
 list.display();  
 Scanner sc=new Scanner(System.in);  
 System.out.println("Enter the pos1");  
 int p=sc.nextInt();  
  
 list.delete(p);  
 list.display();  
 }  
}