import java.io.\*;

class Link

{

Node head;

class Node

{

Node next;

int data;

public Node(int d)

{

data=d;

next=null;

}

}

public void push(int newdata)

{

Node newnode=new Node(newdata);

newnode.next=head;

head=newnode;

}

public void print()

{

Node ptr=head;

while(ptr!=null)

{

System.out.print(ptr.data);

if(ptr.next!=null)

{

System.out.print("->");

}

ptr=ptr.next;

}

}

public void delete(int key)

{

Node temp=head,prev=null;

if(temp!=null && temp.data==key)

{

head=temp.next;

}

while(temp!=null && temp.data!=key)

{

prev=temp;

temp=temp.next;

}

if(temp==null)

{

System.out.println("You have reaches the end of the list.");

}

prev.next=temp.next;

}

}

class Main

{

public static void main(String[] args)throws IOException

{

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

Link obj=new Link();

System.out.println("Enter the number of elements you want to enter: ");

int n = Integer.parseInt(br.readLine());

for(int i=0;i<n;i++)

{

System.out.print("Enter the"+" "+i+" "+"elementL: ");

int newdata=Integer.parseInt(br.readLine());

obj.push(newdata);

}

obj.print();

System.out.println();

System.out.print("Enter the element to be deleted from the list: ");

int key=Integer.parseInt(br.readLine());

System.out.println();

obj.delete(key);

System.out.print("List after deletion is: ");

obj.print();

}

}