Given the head of a singly linked list, reverse the list and return the new head.

public static SinglyLinkedListNode reverse(SinglyLinkedListNode head)
Note:

Do not use collection Framework Input Format

}

The first line contains an integer n, the number of elements in the linked list. The next n lines each contain an integer, the elements of the linked list. Output Format

Print the reversed linked list in a single line, space-separated. Sample Input 0

```
5
1
2
3
4
5
Sample Output 0
54321
import java.io.*;
import java.util.*;
class SinglyLinkedListNode {
  int data;
  SinglyLinkedListNode next;
  SinglyLinkedListNode (int data) {
    this.data = data;
    this.next = null;
  }
}
public class Solution {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution.
    public static SinglyLinkedListNode reverse (SinglyLinkedListNode head) {
      SinglyLinkedListNode prev = null;
      SinglyLinkedListNode current = head;
      SinglyLinkedListNode next = null;
      while (current != null) {
        next = current.next;
        current.next = prev;
        prev = current;
        current = next;
      }
      return prev;
```

```
SinglyLinkedListNode current = head;
      while (current != null) {
         System.out.print (current.data + " ");
         current = current.next;
      }
    }
    public static void main(String[] args) {
      Scanner sc = new Scanner (System.in);
      int n = sc.nextInt ();
      SinglyLinkedListNode head = null, tail = null;
      for (int i = 0; i < n; i++) {
         int data = sc.nextInt ();
         SinglyLinkedListNode newNode = new SinglyLinkedListNode (data);
         if (head == null) {
           head = newNode;
           tail = head;
         else {
           tail.next = newNode;
           tail = newNode;
         }
      SinglyLinkedListNode reversedHead = reverse (head);
      printList (reversedHead);
  }
A sentence is a sequence of characters. Write a recursive Java program that reverses the entire string. That is, the
character at index [0] becomes the last, the character at index [1] becomes the second last, and so on.
Function Signature:
public static String reverseString(String str)
Note:
Do not use collection Framework
Input Format
A single line string S (no spaces, alphanumeric).
Output Format
A single line: the reversed string.
Sample Input 0
CDACMumbai
```

static void printList (SinglyLinkedListNode head) {

Sample Output 0 iabmuMCADC

```
import java.io.*;
import java.util.*;
public class Soluction {
 public static String reverseString(String str) {
    if (str.length() == 0)
       return "";
    return reverseString(str.substring(1)) + str.charAt(0);
  }
  public static void main (String[] args) {
    Scanner sc = new Scanner(System.in);
    String s = sc.nextLine();
    System.out.println (reverseString(s));
  }
}
public class Solution {
  static void reverse (char[] str, int index) {
    if (index < 0) {
       return;
    System.out.println (str [index]);
    reverse (str, index-1);
  }
  public static void main(String[] args) {
    Scanner sc = new Scanner (System.in);
    String input = sc.nextLine ();
    char[] strArray = new char[input.length()];
    for (int i = 0; i <= input.lenght(); i++) {
       strArray [i] = input.charAt(i);
    }
    System.out.println ("Reversed:");
    reverse(strArray, strArray.length -1);
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution.
// }
//}
//*/
```

You are given a series of integers to insert into a Binary Search Tree (BST). After all insertions, delete a given node from the BST and print the in-order traversal of the updated tree.

```
Function Signatures:
public static Node insert(Node root, int data)
public static Node delete(Node root, int data)
public static void traverse(Node root)
Note:
Do not use collection Framework
Input Format
The first line contains an integer n — the number of nodes to insert.
The next n lines contain one integer each — the data values to insert.
The last line contains an integer — the node value to delete.
Output Format
Print the in-order traversal of the BST after the deletion.
Sample Input 0
6
50
30
20
40
70
60
50
Sample Output 0
20 30 40 60 70
import java.util.Scanner;
public class Solution {
  static class Node {
    int data;
    Node left, right;
    Node(int value) {
      data = value;
      left = right = null;
    }
  }
  // Insert node into BST
  public static Node insert(Node root, int data) {
    if (root == null)
      return new Node(data);
    if (data < root.data)
      root.left = insert(root.left, data);
    else if (data > root.data)
      root.right = insert(root.right, data);
```

```
return root;
  }
  // Delete node from BST
  public static Node delete(Node root, int key) {
    if (root == null)
       return null;
    if (key < root.data)
       root.left = delete(root.left, key);
    else if (key > root.data)
       root.right = delete(root.right, key);
    else {
       if (root.left == null)
         return root.right;
       else if (root.right == null)
         return root.left;
       root.data = minValue(root.right);
       root.right = delete(root.right, root.data);
    }
    return root;
  }
  public static int minValue(Node root) {
    while (root.left != null)
       root = root.left;
    return root.data;
  }
  // In-order traversal
  public static void inorder(Node root) {
    if (root != null) {
       inorder(root.left);
       System.out.print(root.data + " ");
       inorder(root.right);
    }
  }
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    int n = sc.nextInt();
    Node root = null;
    for (int i = 0; i < n; i++) {
       int val = sc.nextInt();
       root = insert(root, val);
    }
    int deleteVal = sc.nextInt();
    root = delete(root, deleteVal);
    inorder(root);
  }
}
```