public class LinkedList

{

static class Node

{

int data;

Node next;

Node(int d)

{

data = d;

next = null;

}

}

Node head;

LinkedList()

{

head = null;

}

void sortedInsert(Node new\_node)

{

Node current = head;

if (current == null)

{

new\_node.next = new\_node;

head = new\_node;

}

else if (current.data >= new\_node.data)

{

while (current.next != head)

current = current.next;

current.next = new\_node;

new\_node.next = head;

head = new\_node;

}

else

{

while (current.next != head && current.next.data < new\_node.data)

current = current.next;

new\_node.next = current.next;

current.next = new\_node;

}

}

void printList()

{

if (head != null)

{

Node temp = head;

do

{

System.out.print(temp.data + " ");

temp = temp.next;

} while (temp != head);

}

}

public static void main(String[] args)

{

LinkedList list = new LinkedList();

int arr[] = new int[] {12, 56, 2, 11, 1, 90};

Node temp = null;

for (int i = 0; i < 6; i++)

{

temp = new Node(arr[i]);

list.sortedInsert(temp);

}

list.printList();

}

}