// Insert a new element in a sorted circular linked list

public class Cirlinkedlist {

static class Node {

int data;

Node next;

Node(int d) {

data = d;

next = null;

}

}

Node head;

Cirlinkedlist() {

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) {

Cirlinkedlist list = new Cirlinkedlist();

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();

}

}