package com;

import java.util.\*;

import java.lang.\*;

import java.io.\*;

public class CircularLinkedlist {

static class Node{

Node nextNum;

int data;

};

static Node create() {

Node new\_node = new Node();

new\_node.nextNum = null;

return new\_node;

}

static Node find\_head(Node random) {

if (random == null)

return null;

Node head, var = random;

while (!(var.data > var.nextNum.data ||var.nextNum == random)) {

var = var.nextNum;

}

return var.nextNum;

}

static Node sortedInsert(Node head\_ref,Node new\_node) {

Node current = head\_ref;

if (current == null) {

new\_node.nextNum = new\_node;

head\_ref = new\_node;

}

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

while (current.nextNum != head\_ref)

current = current.nextNum;

current.nextNum = new\_node;

new\_node.nextNum = head\_ref;

head\_ref = new\_node;

}else {

while (current.nextNum != head\_ref &&current.nextNum.data < new\_node.data) {

current = current.nextNum;

}

new\_node.nextNum = current.nextNum;

current.nextNum = new\_node;

}

return head\_ref;

}

static void printList(Node start) {

Node temp;

if (start != null) {

temp = start;

do {

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

temp = temp.nextNum;

} while (temp != start);

}

}

public static void main(String args[]) {

int array[] = { 15,20,18,3,8,1,90,32,5 };

int list\_size, i;

Node start = null;

Node temp;

for (i = 0; i < 9; i++) {

if (start != null)

for (int j = 0;

j < (Math.random() \* 10); j++)

start = start.nextNum;

temp = create();

temp.data = array[i];

start = sortedInsert(find\_head(start), temp);

}

printList(find\_head(start));

}

}

