QUESTION NUMBER 1.

package numberofTimes;

import java.util.Scanner;

public class Number {

public static void main(String[] args) {

Scanner scan=new Scanner(System.***in***);

System.***out***.println("enter your array sequences:");

// int number2=Integer.parseInt(scan.nextLine());

int[]number=new int[4];

number[0]=Integer.*parseInt*(scan.nextLine());

number[1]=Integer.*parseInt*(scan.nextLine());

number[2]=Integer.*parseInt*(scan.nextLine());

Scanner scan2=new Scanner(System.***in***);

System.***out***.println("enter the number to be searched:");

int numberSearched=Integer.*parseInt*(scan2.nextLine());

for(int i=0;i<number.length;i++) {

if(number[i]==numberSearched) {

int times=1;

int numberofTimes=times;

times ++;

System.***out***.println(numberofTimes);

}

}

}

}

Question number 2.

package stack2;

public class Stack {

int size=6;

int []Stack=new int[size];

int top=0;

public void push(int data) {

Stack[top]=data;

top++;

}

public void show() {

for(int i:Stack) {

System.***out***.println(i);

}

}

public int pop() {

int data;

top--;

data=Stack[top];

Stack[top]=0;

return data;

}

}

QUESTION NUMBER 3.

package que;

public class Queue {

int Queue[]=new int[6];

int front;

int top;

int size;

public void enqueue(int data) {

Queue[top]=data;

top++;

size++;

}

public void dequeue() {

int data=Queue[front];

front++;

size--;

System.***out***.println(data);

}

public void show() {

for(int i=0;i<size;i++) {

System.***out***.println(Queue[front+i]);

}

}

}

QUESTION NUMBER 4.

public class Bubblesort {

public static void main(String[] args) {

char[]alpha= {'A','S','C','I','I'};

*bubbleSort*(alpha);

}

public static void bubbleSort(char[]array) {

char temp=0;

int size=5;

for(int i =0;i<size-1;i++){

for(int j = 0;j<size-i-1;j++){

if(array[j]>array[j+1]){

temp=array[j];

array[j]=array[j+1];

array[j+1]= temp;

}

}

}

System.***out***.println("the sorted arrays are ;");

System.***out***.print(array);

}

}

QUESTION NUMBER 5.

package mergeSort;

import java.util.Scanner;

public class merge {

private static void mergeSort(int[] inputArray) {

int inputLength = inputArray.length;

if(inputLength < 2) {

return;

}

int midIndex = inputLength / 2;

int[] leftHalf = new int[midIndex];

int[] rightHalf = new int[inputLength -

midIndex];

for(int i = 0; i < midIndex; i++) {

leftHalf[i - midIndex] = inputArray[i];

}

for(int i = midIndex; i < inputLength; i++) {

rightHalf[i] = inputArray[i];

}

*mergeSort*(leftHalf);

*mergeSort*(rightHalf);

*merge*(inputArray, leftHalf, rightHalf);

}

private static void merge(int[] inputArray, int[]

leftH, int[] rightH) {

int leftSize = leftH.length;

int rightSize = rightH.length;

int i = 0;

int j = 0;

int k = 0;

while(i < leftSize && j < rightSize) {

if(leftH[i] <= rightH[j]) {

inputArray[k] = leftH[i];

i++;

}

else {

inputArray[k] = rightH[j];

}

k++;

}

while(i < leftSize) {

inputArray[k] = leftH[i];

i++;

k++;

}

while(j < rightSize) {

inputArray[k] = rightH[j];

j++;

k++;

} // is continue on the next page

}

public static void main(String[] args) {

Scanner scan=new Scanner(System.***in***);

System.***out***.println("enter your array sequences:");

int number2=Integer.*parseInt*(scan.nextLine());

int[]number=new int[4];

number[0]=Integer.*parseInt*(scan.nextLine());

number[1]=Integer.*parseInt*(scan.nextLine());

number[2]=Integer.*parseInt*(scan.nextLine());

*mergeSort*(number);

}

}

QUESTION NUMBER 6.

package array2;

public class deletingElement {

public static void main(String[] args) {

int[]arr= {3,7,1,9,4};

*appendif*(arr,1);

}

public static void appendif(int []arr, int index) {

for (int i = 0; i < arr.length; i++) {

if (arr[i] == arr[index]) {

continue;

}

continue;

}

System.***out***.println(arr);

}

}