1) import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[] a=new int[n];

if(n<0){

System.out.println("Invalid Input");

}else{

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

a[i]=sc.nextInt();

}

int youngest=a[0];

int oldest=a[0];

for(int i=1;i<n;i++){

if(a[i]<youngest){

youngest=a[i];

}

if(a[i]>oldest){

oldest=a[i];

}

}

System.out.println("Youngest=" + youngest);

System.out.println("Oldest=" + oldest);

}

}

}

2) import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[] a=new int[n];

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

a[i]=sc.nextInt();

}

int key=sc.nextInt();

int index=-1;

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

if(key==a[i]){

index=i;

break;

}

}

if(index==-1){

System.out.println("-1");

}else{

System.out.printf("Door Number is %03d-DN" , index );

}

}

}

3) import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[] a=new int[n];

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

a[i]=sc.nextInt();

}

double positive=0;

double negative=0;

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

if(a[i]>0){

positive++;

}else{

negative++;

}

}

System.out.printf("Count of Positive Integer is %.2f\n",positive);

System.out.printf("Count of Negative Integer is %.2f\n",negative);

}

}

4) import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[] arr=new int[n];

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

arr[i]=sc.nextInt();

}

double sum=0;

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

sum+=arr[i];

}

double mean=sum/n;

System.out.printf("Array Mean Value is %.2f",mean);

}

}

5) import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

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

for(int j=0;j<n;j++){

if(i==0 || i==n-1 || j==0||j==n-1){

System.out.print("\*");

}else{

System.out.print(" ");

}

}

System.out.println();

}

}

}

6) import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[] a=new int[n];

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

a[i]=sc.nextInt();

}

int max=0;

int min=0;

Arrays.sort(a);

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

min=a[1];

max=a[n-2];

}

System.out.println("Second minimum value" + min);

System.out.println("Second maximum value" + max);

}

}

7) import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int num = sc.nextInt();

int sum = (num / 10) + (num % 10);

System.out.println("Bird said:" + num);

System.out.println("Alice must go in path-" + sum);

}

}

8) import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int cop=sc.nextInt();

int sell=sc.nextInt();

int cost=sc.nextInt();

double profit=(cop\*sell)-(cop\*cost+100);

System.out.println("Number of copies sold:"+cop);

System.out.println("Cost of each copy:"+sell);

System.out.println("Cost spent by agency on each newspaper:"+cost);

System.out.printf("The profit obtained is Rs.%.2f",profit);

}

}