import java.util.Scanner;

import java.util.Random;

class Solution {

public static void main(String args[])

{

int i,n;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

double a[] = new double[n];

boolean ans[] = new boolean[n];

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

System.out.println("Enter share price of company:");

double s = sc.nextDouble();

System.out.println("Transition in market:");

a[i]=s;

//System.out.println(s);

Random rd = new Random();

//boolean s1 = sc.nextBoolean();

boolean s1=rd.nextBoolean();

System.out.println(s1);

ans[i]= s1;

}

System.out.println("Enter choice");

int c = sc.nextInt();

switch(c)

{

case 1:System.out.println("Display the stock price of companies in ascending order");

AscendingOrder(a);

for(double x:a) {

System.out.println(x);

}

break;

case 2:System.out.println("Display the stock price of companies in descending order");

DescendingOrder(a);

for(double x:a) {

System.out.println(x);

}

break;

case 3:System.out.println("Display the total no of companies for which stock prices rose today");

System.out.println(IncreasedStockedPrice(ans));

break;

case 4:System.out.println("Display the total number of companies for which the stock prices declined today");

System.out.println(DecreasedStockPrice(ans));

break;

case 5:System.out.println("Search a specific stock price ");

System.out.println("Enter price of stock ");

int k=sc.nextInt();

System.out.println(SearchStockPrice(a,k));

break;

case 6:

default: System.out.println("0"+"\n"+"Exited Successfully");

break;

}

}

private static String SearchStockPrice(double[] a,double f) {

// TODO Auto-generated method stub

int i,flag=0;

for(i=0;i<a.length;i++)

{

if(a[i]==f) {

flag=1;

break;

}

}

if(flag==1) {

return "Present";

}

else {

return "Value not found";

}

}

private static int DecreasedStockPrice(boolean[] ans) {

// TODO Auto-generated method stub

int i,c=0;

for(i=0;i<ans.length;i++)

{

if(ans[i]==false) {

c++;

}

}

return c;

}

private static int IncreasedStockedPrice(boolean[] ans) {

// TODO Auto-generated method stub

int i,c=0;

for(i=0;i<ans.length;i++)

{

if(ans[i]==true) {

c++;

}

}

return c;

}

private static double[] DescendingOrder(double[] a) {

// TODO Auto-generated method stub

int i,j;

for(i=0;i<a.length-1;i++)

{

for(j=0;j<a.length-i-1;j++)

{

if(a[j]<a[j+1]) {

double temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

}

}

return a;

}

private static double[] AscendingOrder(double[] a) {

// TODO Auto-generated method stub

int i,j;

for(i=0;i<a.length-1;i++)

{

for(j=0;j<a.length-i-1;j++)

{

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

double temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

}

}

return a;

}

}