**1.Youngest-oldest 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();

If (n < 0) {

System.out.println(“Invalid Input”);

Return;

}

Int minAge = Integer.MAX\_VALUE;

Int maxAge = Integer.MIN\_VALUE;

Boolean invalidAgeFound = false;

For (int I = 0; I < n; i++) {

Int age = sc.nextInt();

If (age < 0) {

invalidAgeFound = true;

break;

}

If (age < minAge) {

minAge = age;

}

If (age > maxAge) {

maxAge = age;

}

}

If (invalidAgeFound) {

System.out.println(“Invalid Input”);

} else {

System.out.println(“Youngest=” + minAge);

System.out.println(“Oldest=” + maxAge);

}

Sc.close();

}

}

**2.Array 176**

Import java.util.\*;

Public class Main {

Public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

Int n = sc.nextInt();

Int[] doors = new int[n];

For (int I = 0; I < n; i++) {

Doors[i] = sc.nextInt();

}

Int target = sc.nextInt();

Int index = -1;

For (int I = 0; I < n; i++) {

If (doors[i] == target) {

Index = I;

Break;

}

}

If (index == -1) {

System.out.println(“-1”);

} else {

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

}

}

}

**3.Difference of the character 1**

Import java.util.\*;

Public class Main {

Public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s = sc.next();

Int countStar = 0, countHash = 0;

For (char c : s.toCharArray()) {

If (c == ‘\*’) countStar++;

Else if (c == ‘#’) countHash++;

}

Int diff = countStar – countHash;

If (diff == 0) {

System.out.println(0);

Return;

}

Int absDiff = Math.abs(diff);

Int width = (absDiff % 2 == 0) ? 2 : 3;

String padded = String.format(“%0” + width + “d”, absDiff);

If (diff < 0) padded = “-“ + padded;

System.out.println(“The Difference of the character in the given string: “ + padded);

}

}

**4.Count the Positive and Negative Integer Number 1**

Import java.util.\*;

Public class Main {

Public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

Int n = sc.nextInt();

Int positive = 0, negative = 0;

For (int I = 0; I < n; i++) {

Int val = sc.nextInt();

If (val > 0) {

Positive++;

} else if (val < 0) {

Negative++;

}

}

System.out.printf(“Count of Positive Integer is %.2f%n”, (double) positive);

System.out.printf(“Count of Negative Integer is %.2f%n”, (double) negative);

}

}

**5.ARRAY MEAN 4**

Import java.util.\*;

Public class Main {

Public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

Int n = sc.nextInt();

Double sum = 0;

For (int I = 0; I < n; i++) {

Sum += sc.nextInt();

}

Double mean = sum / n;

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

}

}

**6.Count distinct elements 8**

Import java.util.\*;

Public class Main {

Public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

Int n = sc.nextInt();

Set<Integer> distinctSet = new HashSet<>();

For (int I = 0; I < n; i++) {

distinctSet.add(sc.nextInt());

}

Int distinctCount = distinctSet.size();

If (distinctCount == 1) {

System.out.println(“There are 1 distinct element in the array.”);

} else {

System.out.println(“There are “ + distinctCount + “ distinct elements in the array.”);

}

}

}