1. Find the largest and smallest element in an array

import java.util.Scanner;

public class MinMaxArray {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter array size: ");

int n = sc.nextInt();

int[] arr = new int[n];

System.out.println("Enter elements:");

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

arr[i] = sc.nextInt();

int min = arr[0], max = arr[0];

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

if (arr[i] < min) min = arr[i];

if (arr[i] > max) max = arr[i];

}

System.out.println("Min: " + min + ", Max: " + max);

2. Sort an array in ascending order

import java.util.Arrays;

import java.util.Scanner;

public class SortArray {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter array size: ");

int n = sc.nextInt();

int[] arr = new int[n];

System.out.println("Enter elements:");

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

arr[i] = sc.nextInt();

Arrays.sort(arr);

System.out.println("Sorted array:");

for (int num : arr)

System.out.print(num + " ");

}

}

3. Calculate average of numbers in an array

import java.util.Scanner;

public class ArrayAverage {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter array size: ");

int n = sc.nextInt();

int[] arr = new int[n];

System.out.println("Enter elements:");

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

arr[i] = sc.nextInt();

int sum = 0;

for (int num : arr)

sum += num;

double avg = (double) sum / n;

System.out.println("Average: " + avg);

}

}

4. Count occurrence of an element

import java.util.Scanner;

public class CountOccurrence {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter array size: ");

int n = sc.nextInt();

int[] arr = new int[n];

System.out.println("Enter elements:");

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

arr[i] = sc.nextInt();

System.out.print("Enter number to count: ");

int x = sc.nextInt();

int count = 0;

for (int num : arr)

if (num == x) count++;

System.out.println(x + " occurred " + count + " times.");

}

}

5. Reverse elements of an array

import java.util.Scanner;

public class ReverseArray {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter array size: ");

int n = sc.nextInt();

int[] arr = new int[n];

System.out.println("Enter elements:");

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

arr[i] = sc.nextInt();

System.out.println("Reversed array:");

for (int i = n - 1; i >= 0; i--)

System.out.print(arr[i] + " ");

}

}