HACKERRANK QUESTION

DAY-5

1. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read array size

int n = sc.nextInt();

int[] arr = new int[n];

// Read array elements

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

arr[i] = sc.nextInt();

}

// Read the element to search

int key = sc.nextInt();

boolean found = false;

// Search for the element

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

if (arr[i] == key) {

found = true;

break;

}

}

// Print result

if (found) {

System.out.println(key + " is presented in an array.");

} else {

System.out.println(key + " is not presented in an array.");

}

sc.close();

}

}

2. import java.util.Arrays;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read array size

int n = sc.nextInt();

int[] arr = new int[n];

// Read array elements

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

arr[i] = sc.nextInt();

}

// Read k

int k = sc.nextInt();

// Sort the array

Arrays.sort(arr);

// Print sorted array

System.out.print("The elements are in the order:");

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

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

}

System.out.println();

// Print k and largest elements

System.out.print("The Kth value is " + k + " and Largest elements are");

for (int i = n - 1; i >= n - k; i--) {

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

}

System.out.println();

sc.close();

}

}

3. import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read array size

int n = sc.nextInt();

int[] arr = new int[n];

// Read array elements

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

arr[i] = sc.nextInt();

}

int sum = 0;

// Calculate sum of squares of positive numbers

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

if (arr[i] > 0) {

sum += arr[i] \* arr[i];

}

}

// Print result

System.out.println(sum);

sc.close();

}

}

4. import java.util.\*;

public class Main {

public static int findSum(int[] arr, int n) {

List<Integer> evenPos = new ArrayList<>();

List<Integer> oddPos = new ArrayList<>();

// Separate even and odd positioned elements

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

if (i % 2 == 0) {

evenPos.add(arr[i]);

} else {

oddPos.add(arr[i]);

}

}

// Sort both lists

Collections.sort(evenPos); // ascending

Collections.sort(oddPos); // ascending

// Second largest in even positions -> second last element

int secondLargestEven = evenPos.get(evenPos.size() - 2);

// Second smallest in odd positions -> second element

int secondSmallestOdd = oddPos.get(1);

return secondLargestEven + secondSmallestOdd;

}

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();

}

int result = findSum(arr, n);

System.out.println("Sum=" + result);

sc.close();

}

}

5. import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String str = s.next();

char [] ch = str.toCharArray();

String rev = "";

for(int i = ch.length-1; i >= 0; i--) {

rev += ch[i];

}

System.out.println(rev);

}

}

6. import java.util.Scanner;

public class RemoveSpaces {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String input = sc.nextLine();

String output = input.replace(" ", "");

System.out.println(output);

}

}

7. import java.util.Scanner;

public class RemoveVowels {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String input = sc.nextLine();

// Remove vowels (both lowercase and uppercase)

String output = input.replaceAll("[aeiouAEIOU]", "");

System.out.println(output);

}

}

8. import java.util.Scanner;

public class ConcatenateStrings {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Read two strings and trim spaces

String first = sc.nextLine().trim();

String second = sc.nextLine().trim();

// Concatenate the trimmed strings

String result = first + second;

// Print the concatenated string

System.out.println(result);

}

}