

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### REC\_2028\_OOPS using Java\_Week 3\_MCQ

Attempt : 1  
Total Mark : 15  
Marks Obtained : 10

#### Section 1 : MCQ

1. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] nums = {4, 2, 9, 5};  
        int max = nums[0];  
        for (int i = 1; i < nums.length; i++) {  
            if (nums[i] > max)  
                max = nums[i];  
        }  
        System.out.println(max);  
    }  
}
```

**Answer**

9

Status : Correct

Marks : 1/1

2. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 1, 3, 1, 4};  
        int count = 0;  
        for (int i = 0; i < a.length; i++) {  
            if (a[i] == 1) count++;  
        }  
        System.out.println(count);  
    }  
}
```

Answer

4

Status : Wrong

Marks : 0/1

3. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[][] arr = {  
            {5, 6, 7},  
            {8, 9, 10}  
        };  
        System.out.println(arr[0][2]);  
    }  
}
```

Answer

10

Status : Wrong

Marks : 0/1

4. What will be the output of the following code?

```

class Sample {
    public static void main(String[] args) {
        int[] a = {1, 2, 3};
        int product = 1;
        for (int i = 0; i < a.length; i++) {
            product *= a[i];
        }
        System.out.println(product);
    }
}

```

**Answer**

6

**Status :** Correct

**Marks :** 1/1

5. What will be the output of the following code?

```

class Q {
    public static void main(String[] args) {
        int[] a = {1, 2, 3, 4};
        for (int i = 0; i < a.length / 2; i++) {
            int temp = a[i];
            a[i] = a[a.length - 1 - i];
            a[a.length - 1 - i] = temp;
        }
        System.out.println(a[0]);
    }
}

```

**Answer**

2

**Status :** Wrong

**Marks :** 0/1

6. What will be the output of the following code?

```

class Q {

```

```
public static void main(String[] args) {  
    int[][] a = {  
        {1, 2},  
        {3, 4}  
    };  
    int sum = 0;  
    for (int i = 0; i < a.length; i++)  
        for (int j = 0; j < a[0].length; j++)  
            sum += a[i][j];  
    System.out.println(sum);  
}
```

**Answer**

10

**Status :** Correct

**Marks :** 1/1

7. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] nums = {3, 6, 7, 2, 8};  
        int sum = 0;  
        for (int i = 0; i < nums.length; i++) {  
            if (nums[i] % 2 == 0)  
                sum += nums[i];  
        }  
        System.out.println(sum);  
    }  
}
```

**Answer**

16

**Status :** Correct

**Marks :** 1/1

8. What will be the output of the following code?

```
public class Test {  
    public static void main(String[] args) {  
        int[] x = {4, 8, 12};  
        int result = x[0] * x[2];  
        System.out.println(result);  
    }  
}
```

**Answer**

48

**Status :** Correct

**Marks :** 1/1

9. What will be the output of the following code?

```
class ReverseArray {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 3, 4};  
        for (int i = 0; i < a.length / 2; i++) {  
            int temp = a[i];  
            a[i] = a[a.length - 1 - i];  
            a[a.length - 1 - i] = temp;  
        }  
        for (int i : a)  
            System.out.print(i + " ");  
    }  
}
```

**Answer**

4 3 2 1

**Status :** Correct

**Marks :** 1/1

10. What will be the output of the given code?

```
public class Main {  
    public static void main(String[] args) {  
        int[] arr = {1, 2, 3, 4, 5};  
    }  
}
```

```

int n = arr.length;
int temp = arr[0];

for (int i = 0; i < n - 1; i++) {
    arr[i] = arr[i + 1];
}
arr[n - 1] = temp;

for (int num : arr) {
    System.out.print(num + " ");
}
}
}

```

**Answer**

2 3 4 5 1

**Status :** Correct

**Marks :** 1/1

11. What will be the output of the following code?

```

class M {
    public static void main(String[] args) {
        int[][] arr = {
            {1, 2},
            {3, 4},
            {5, 6}
        };

        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i][0] + " ");
        }
    }
}

```

**Answer**

1 2 4

**Status :** Wrong

**Marks :** 0/1

12. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 3, 4};  
        for (int i = 0; i < a.length; i++) {  
            if (a[i] % 2 == 0)  
                a[i] = 0;  
        }  
        System.out.println(a[1] + " " + a[3]);  
    }  
}
```

**Answer**

2 4

**Status :** Wrong

**Marks :** 0/1

13. What will be the output of the following code?

```
class Sample {  
    public static void main(String[] args) {  
        int[][] matrix = {  
            {1, 2, 3},  
            {4, 5, 6}  
        };  
        System.out.println(matrix[1][2]);  
    }  
}
```

**Answer**

6

**Status :** Correct

**Marks :** 1/1

14. What will be the output of the following code?

```
class Sample {  
    public static void main(String[] args) {
```

```

int[][] data = {
    {1, 2},
    {3, 4}
};
int sum = 0;

for (int[] row : data) {
    for (int val : row) {
        sum += val;
    }
}

System.out.println("Sum = " + sum);
}
}

```

**Answer**

Sum = 10

**Status :** Correct

**Marks :** 1/1

15. What will be the output of the following code?

```

class Q {
    public static void main(String[] args) {
        int[][] a = {
            {1, 2},
            {3, 4}
        };
        for (int i = 0; i < a.length; i++) {
            for (int j = 0; j < a[0].length; j++) {
                System.out.print(a[i][j] + " ");
            }
        }
    }
}

```

**Answer**

1 2 3 4



Status : Correct

Marks : 1/1

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q1

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Rosh is intrigued by numerical patterns. Today, she stumbled upon a puzzle while working with arrays. She wants to compute the sum of the third-largest and second-smallest elements from a list of integers. She seeks your help to implement a program that solves this for her efficiently.

##### ***Input Format***

The first line of input is an integer N, representing the size of the array.

The second line of input consists of N space-separated integers, representing the elements of the array.

##### ***Output Format***

The output displays a single integer representing the sum of the third-largest and second-smallest elements in the array.

Refer to the sample output for the formatting specifications.

**Sample Test Case**

Input: 10

10 20 30 40 50 60 70 80 90 100

Output: 100

**Answer**

```
import java.util.*;

public class Main {
    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();
        }

        Arrays.sort(arr);

        int secondSmallest = arr[1];
        int thirdLargest = arr[N - 3];

        System.out.print(secondSmallest + thirdLargest);
    }
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q2

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Monica is interested in finding a treasure but the key to opening is to get the sum of the main diagonal elements and secondary diagonal elements.

Write a program to help Monica find the diagonal sum of a square 2D array.

Note: The main diagonal of the array consists of the elements traversing from the top-left corner to the bottom-right corner. The secondary diagonal includes elements from the top-right corner to the bottom-left corner.

##### ***Input Format***

The first line of input consists of an integer N, representing the number of rows and columns.

The following N lines consist of N space-separated integers, representing the 2D array elements.

### **Output Format**

The first line of output prints "Sum of the main diagonal: " followed by an integer, representing the sum of the main diagonal.

The second line prints "Sum of the secondary diagonal: " followed by an integer, representing the sum of the secondary diagonal.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 3

1 2 3

4 5 6

7 8 9

Output: Sum of the main diagonal: 15

Sum of the secondary diagonal: 15

### **Answer**

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        int N = sc.nextInt();  
        int[][] matrix = new int[N][N];
```

```
        int mainDiagonalSum = 0;  
        int secondaryDiagonalSum = 0;
```

```
        for (int i = 0; i < N; i++) {  
            for (int j = 0; j < N; j++) {  
                matrix[i][j] = sc.nextInt();
```

```
                if (i == j) {
```

```
        mainDiagonalSum += matrix[i][j];
    }
    if (i + j == N - 1) {
        secondaryDiagonalSum += matrix[i][j];
    }
}
}
```

```
    System.out.println("Sum of the main diagonal: " + mainDiagonalSum);
    System.out.print("Sum of the secondary diagonal: " +
secondaryDiagonalSum);
    }
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q3

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

You are developing a warehouse management system for a shipping company. The system uses an integer array to represent the weights of packages in a specific order. To verify that the weight capacity is not exceeded, the program needs to calculate the sum of the weights of the first and last packages in the list.

Task:

Write a code to calculate the sum of the weights of the first and last packages in the list. The program should take an integer array as input and return the total weight of the first and last packages.

##### ***Input Format***

The first line of the input is an integer N representing the size of the array.

The second line of the input is N space-separated integer values.

### **Output Format**

The output is displayed in the following format:

"Sum of the first and last elements: <<Sum>>"

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

10 20 30 40 50

Output: Sum of the first and last elements: 60

### **Answer**

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        int N = sc.nextInt();  
        int[] weights = new int[N];
```

```
        for (int i = 0; i < N; i++) {  
            weights[i] = sc.nextInt();  
        }
```

```
        int sum = weights[0] + weights[N - 1];
```

```
        System.out.print("Sum of the first and last elements: " + sum);
```

```
    }  
}
```



Status : Correct

Marks : 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q4

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Sesha is developing a weather monitoring system for a region with multiple weather stations. Each weather station collects temperature data hourly and stores it in a 2D array.

Write a program that can add the temperature data from two different weather stations to create a combined temperature record for the region.

##### ***Input Format***

The first line of input consists of two space-separated integers N and M, representing the number of rows and columns of the matrices, respectively.

The next N lines consist of M space-separated integers, representing the values of the first matrix.

The following N lines consist of M space-separated integers, representing the values of the second matrix.

### **Output Format**

The output prints the addition of the two matrices in N rows and M columns, representing the combined temperature record.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 3 3

1 2 3

4 5 6

7 8 9

1 1 1

2 2 2

3 3 3

Output: 2 3 4

6 7 8

10 11 12

### **Answer**

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        int N = sc.nextInt();
```

```
        int M = sc.nextInt();
```

```
        int[][] matrix1 = new int[N][M];
```

```
        int[][] matrix2 = new int[N][M];
```

```
        int[][] result = new int[N][M];
```

```
        for (int i = 0; i < N; i++) {  
            for (int j = 0; j < M; j++) {  
                matrix1[i][j] = sc.nextInt();
```

```
    }  
    }  
  
    for (int i = 0; i < N; i++) {  
        for (int j = 0; j < M; j++) {  
            matrix2[i][j] = sc.nextInt();  
        }  
    }  
  
    for (int i = 0; i < N; i++) {  
        for (int j = 0; j < M; j++) {  
            result[i][j] = matrix1[i][j] + matrix2[i][j];  
            System.out.print(result[i][j] + " ");  
        }  
        System.out.println();  
    }  
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q5

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Sharon is creating a program that finds the first repeated element in an integer array. The program should efficiently identify the first element that appears more than once in the given array. If no such element is found, it should appropriately display a message.

Help Sharon to complete the program.

##### ***Input Format***

The first line of input consists of an integer  $n$ , representing the number of elements in the array.

The second line consists of  $n$  space-separated integers, representing the array elements.

### **Output Format**

If a repeated element is found, print the first element that appears more than once.

If no repeated element is found, print "No repeated element found in the array".

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 8

12 21 13 14 21 36 47 21

Output: 21

### **Answer**

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        int n = sc.nextInt();  
        int[] arr = new int[n];  
        Set<Integer> seen = new HashSet<>();  
        int repeated = -1;
```

```
        for (int i = 0; i < n; i++) {  
            arr[i] = sc.nextInt();  
            if (seen.contains(arr[i]) && repeated == -1) {  
                repeated = arr[i];  
            }  
            seen.add(arr[i]);  
        }
```

```
        if (repeated != -1) {  
            System.out.print(repeated);  
        } else {
```

```
System.out.print("No repeated element found in the array");
```

```
}  
}  
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### REC\_2028\_OOPS using Java\_Week 3\_PAH

Attempt : 1  
Total Mark : 40  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Egath is participating in a coding hackathon, and one of the challenges requires him to work with an array of integers. The task is to remove exactly one element from the array such that the sum of the remaining elements is a prime number.

Help Egath find the first possible prime sum by removing one element or determining if no such prime sum can be achieved.

##### ***Input Format***

The first line of input consists of an integer N, representing the number of elements in the array.

The second line consists of N space-separated integers, representing the array elements.



### **Output Format**

If removing one element results in a prime sum, print the sum.

If no such prime sum can be achieved by removing exactly one element, print "No valid prime sum found".

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 3

1 2 3

Output: 5

### **Answer**

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int N = sc.nextInt();
        int[] arr = new int[N];
        int totalSum = 0;

        for (int i = 0; i < N; i++) {
            arr[i] = sc.nextInt();
            totalSum += arr[i];
        }

        boolean found = false;
        for (int i = 0; i < N; i++) {
            int sumAfterRemoval = totalSum - arr[i];
            if (isPrime(sumAfterRemoval)) {
                System.out.print(sumAfterRemoval);
                found = true;
                break;
            }
        }
    }
}
```

```

    }
}

    if (!found) {
        System.out.print("No valid prime sum found");
    }
}

```

```

public static boolean isPrime(int num) {
    if (num < 2) return false;
    for (int i = 2; i <= Math.sqrt(num); i++) {
        if (num % i == 0) return false;
    }
    return true;
}
}

```

**Status :** Correct

**Marks :** 10/10

## 2. Problem Statement

Priya is building a system to automate image transformations using matrix operations. To do this, she needs to multiply two matrices representing pixel data and transformation rules.

Help Priya perform matrix multiplication and print the resulting matrix if the operation is valid.

### **Input Format**

The first line of input consists of two int values, representing the number of rows R1 and columns C1 of the first matrix.

The next R1 × C1 integers represent the elements of the first matrix.

The next line consists of two int values, representing the number of rows R2 and columns C2 of the second matrix.

The next R2 × C2 integers represent the elements of the second matrix.

### **Output Format**

If matrix multiplication is possible, print R1 lines, each containing C2 space-separated int values representing the resulting matrix.

Otherwise, print "Matrix multiplication not possible".

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 2 3

1 2 3

4 5 6

3 2

7 8

9 10

11 12

Output: 58 64

139 154

### **Answer**

-

**Status :** -

**Marks :** 0/10

## **3. Problem Statement**

Eminem is a billiard player who enjoys playing billiards and also likes solving mathematical puzzles. He notices that the billiard balls on the table are arranged in a grid, and he is curious to find the sum of the numbers written on each ball.

Write a program to find the sum of all the numbers written on each ball in the grid.

### **Input Format**

The first line of input consists of an integer N, representing the number of rows.

The second line consists of an integer M, representing the number of columns.

The following lines N lines consist of M space-separated integers, representing the numbers written on each ball.

### **Output Format**

The output prints an integer representing the sum of all the numbers written on each ball.

Refer to the sample output for the formatting specifications.

### **Sample Test Case**

Input: 3

3

1 2 3

4 5 6

7 8 9

Output: 45

### **Answer**

-

**Status :** -

**Marks :** 0/10

## **4. Problem Statement**

In a customer loyalty program, reward points are logged in a sorted array as customers make transactions. Occasionally, due to system errors, duplicate entries for the same transaction may appear. To ensure accurate reward calculations, it's crucial to remove these duplicates from the list.

Write a program to process the array of reward points, removing any duplicates while preserving the order of unique entries. The program should then display the cleaned list of unique reward points and the total count of these unique points.

### ***Input Format***

The first line of input consists of an integer N, representing the number of reward points.

The second line consists of N space-separated integers, representing the reward points in sorted order.

### ***Output Format***

The first line of output prints the cleaned list of unique reward points separated by a space.

The second line of output prints an integer representing the total count of unique reward points.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 3

100 100 200

Output: 100 200

2

### ***Answer***

-

**Status :** -

**Marks :** 0/10

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## 2024\_28\_III\_OOPS Using Java Lab

### REC\_2028\_OOPS using Java\_Week 3\_CY

Attempt : 1  
Total Mark : 40  
Marks Obtained : 30

#### Section 1 : Coding

##### 1. Problem Statement

Nikila is working as an intern in a software firm and is practicing with a matrix where each row represents a set of numerical values. Her task is to identify the row with the highest sum of its elements and remove that row from the matrix. After removing the row with the highest sum, Nikila needs to print the updated matrix.

Your task is to help Nikila in implementing the same. If there are two or more rows that have same the highest sum, the firstly encountered row is deleted.

##### ***Input Format***

The first line of the input consists of two space-separated integers, R and C, representing the number of rows and columns in the matrix, respectively.

The following R lines each contain, C space-separated integers representing the matrix elements.

### **Output Format**

The output prints the matrix after removing the row with the highest sum. Each row should be printed on a new line, with elements separated by a space.

Refer to the sample output for the formatting specifications.

### **Sample Test Case**

Input: 2 2

1 2

3 4

Output: 1 2

### **Answer**

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        int R = sc.nextInt();  
        int C = sc.nextInt();
```

```
        int[][] matrix = new int[R][C];  
        int maxSum = -1;  
        int rowToRemove = -1;
```

```
        for (int i = 0; i < R; i++) {  
            int rowSum = 0;  
            for (int j = 0; j < C; j++) {  
                matrix[i][j] = sc.nextInt();  
                rowSum += matrix[i][j];  
            }  
            if (rowSum > maxSum) {  
                maxSum = rowSum;
```

```

        rowToRemove = i;
    }
}

for (int i = 0; i < R; i++) {
    if (i == rowToRemove) continue;
    for (int j = 0; j < C; j++) {
        System.out.print(matrix[i][j] + " ");
    }
    System.out.println();
}
}
}

```

**Status :** Correct

**Marks :** 10/10

## 2. Problem Statement

Robin is a tech-savvy teenager who is diving into programming.

He is working on a project to find special elements in an array called 'leaders.' Leaders are those exceptional elements that are greater than the sum of all the elements to their right.

Assist Robin in writing this program.

Example

Input:

6

16 28 74 19 25 11

Output:

74 25 11

Explanation:

The element 16 is not greater than the sum of elements to its right (28 +



$74 + 19 + 25 + 11 = 157$ )

The element 28 is not greater than the sum of elements to its right ( $74 + 19 + 25 + 11 = 129$ )

The element 74 is greater than the sum of elements to its right ( $19 + 25 + 11 = 55$ )

The element 19 is not greater than the sum of elements to its right ( $25 + 11 = 36$ )

The element 25 is greater than the sum of elements to its right (11)

The last element 11 is always a leader since there are no elements to its right.

So, the output is {74, 25, 11}.

### ***Input Format***

The first line of input consists of an integer N, representing the number of elements in the array.

The second line consists of N space-separated integers, representing the elements of the array.

### ***Output Format***

The output prints the special elements in the given array, that are greater than the sum of all the elements to their right.

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 5

3 4 2 5 1

Output: 5 1

### ***Answer***

```
import java.util.*;  
  
public class Main {
```

```
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();  
    }
```

```
    for (int i = 0; i < N; i++) {  
        int sumRight = 0;  
        for (int j = i + 1; j < N; j++) {  
            sumRight += arr[j];  
        }  
        if (arr[i] > sumRight) {  
            System.out.print(arr[i] + " ");  
        }  
    }  
}
```

**Status :** Correct

**Marks :** 10/10

### 3. Problem Statement

Alex is a treasure hunter who collects valuable items during their quests. Each item has a specific point value, and Alex wants to maximize their score by strategically removing items one at a time.

The rule is simple: Alex removes the item with the highest point value in each step until no items are left, summing the values of the removed items to calculate the maximum score.

Help Alex to complete his task.

**Input Format**

The first line of input consists of an integer N, representing the size of the array.

The second line of input consists of N space-separated integers, representing the point values of the items.

### **Output Format**

The output prints "Maximum Sum: " followed by the calculated maximum score after removing all items.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 14

7 14 21 28 35 42 49 56 63 70 77 84 91 98

Output: Maximum Sum: 735

### **Answer**

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int N = sc.nextInt();
        int[] items = new int[N];
        int sum = 0;

        for (int i = 0; i < N; i++) {
            items[i] = sc.nextInt();
            sum += items[i];
        }

        System.out.print("Maximum Sum: " + sum);
    }
}
```

**Status : Correct**

**Marks : 10/10**

#### 4. Problem Statement:

Imagine you have an array of integer values, and you're tasked with identifying a pair of elements within the array. This pair of elements should have a sum that is the closest to zero when compared to any other pair in the array.

Your goal is to create a program that solves this problem efficiently. The program should accept an array of integers and return the pair of elements whose sum is closest to zero.

##### ***Input Format***

The first line of the input is an integer N representing the size of the array.

The second line of the input contains N space-separated integer values.

##### ***Output Format***

The output is displayed in the following format:

"Pair with the sum closest to zero: {value} and {value}"

Refer to the sample output for formatting specifications.

##### ***Sample Test Case***

Input: 5

9 10 -3 -5 -2

Output: Pair with the sum closest to zero: 9 and -5

##### ***Answer***

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        int N = sc.nextInt();  
        int[] items = new int[N];
```

```
int sum = 0;

for (int i = 0; i < N; i++) {
    items[i] = sc.nextInt();
    sum += items[i];
}

System.out.print("Pair with the sum closest to zero:" + sum);
}
```

**Status :** Wrong

**Marks :** 0/10