

## Result &amp; Analysis

Attempt 1

of 01



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Test

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

Course

2024\_28\_III\_OOPS Using Java Lab

IP Address 49.24...

Tab Switches --

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Summary

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1 MCQ (15)

**Question No: 1****Multi Choice Type Question**

What will be the output of the following code?

```
1 class Sample {  
2     public static void main(String[] args) {  
3         int[] a = {1, 2, 3};  
4         int product = 1;  
5         for (int i = 0; i < a.length; i++) {  
6             product *= a[i];  
7         }  
8         System.out.println(product);  
9     }  
10 }
```

 8 10

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1 Coding (1)

**Question No: 1****Single File Programming Question****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.

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1 Coding (1)

**Question No: 1****Single File Programming Question****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

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Test

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

Course

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Summary

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1 Coding (1)

**Question No: 1****Single File Programming Question****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 :**

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**Summary****Sections****Filters**

1 Coding (1)

**Question No: 1****Single File Programming Question****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.**

**Code constraints :**

$1 \leq N, M \leq 10$

**Sample test cases :**

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1 Coding (1)

**Question No: 1****Single File Programming Question****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".

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1 Coding (4)

**Question No: 1****Single File Programming Question****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.

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1 Coding (4)

**Question No: 1****Single File Programming Question****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 :**