Result & Analysis

Attempt 1 ⌄ of 01

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Test	REC_2028_OOPS using Java_Week 10_MCQ
Course	2024_28_III_OOPS Using Java Lab

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Summary Sections Filters

1 MCQ (15)

Question No: 1

Multi Choice Type Question

What happens if two keys have the same hash code in a HashMap?

○ The key-value pair is ignored

○ The existing value gets replaced

○ The program throws an exception

○ A linked list is used to store values with the same hash

Status **Correct** | Mark obtained **1/1** | Hints used **0** | Level **Easy** |

Question type **MCQ Single Correct** | Subject **Java** | Topic **Collections** |

Result & Analysis

Attempt 1 of 01

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Course	2024_28_III_OOPS Using Java Lab

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Summary Sections Filters

1 COD (1)

Question No: 1

Single File Programming Question

Problem Statement

A city traffic management system needs to track vehicles entering a toll booth. Each vehicle is uniquely identified by its registration number. The system should allow adding vehicles to a record, ensuring that no duplicate registration numbers exist. The vehicles should be stored in a HashSet, which does not guarantee any specific order.

Your task is to implement a program using a **HashSet** that allows adding vehicle details and displaying the records.

Input format :

The first line of input contains an integer **N** - the number of vehicles.

The next **N** lines contain details of each vehicle in the format: "**RegNumber OwnerName VehicleType**"

RegNumber (String) - A unique registration number (Alphanumeric).

OwnerName (String) - The name of the vehicle owner.

VehicleType (String, Car, Bike, or Truck) - The type of vehicle.

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Summary Sections Filters

1 COD (1)

Question No: 1

Single File Programming Question

Problem Statement

John is organizing a fruit festival, and the quantities of various fruits are stored in a **HashMap** where fruit names are keys and quantities are values.

Help him develop a program to find the total quantity of fruits for the festival by summing up the values in the HashMap.

Input format :

The input consists of fruit quantities in the format 'fruitName:quantity', where fruitName is the name of the fruit(a string), and quantity is a double value representing the quantity.

The input is terminated by entering "done".

Output format :

The output prints a double value, representing the sum of values in the HashMap, rounded off to two decimal places.

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Summary Sections Filters

1 COD (1)

Question No: 1

Single File Programming Question

Problem Statement

Priya is analyzing encrypted messages in a research project. She wants to analyze the frequency of each character in a given paragraph. The characters should be stored in a TreeMap so that the output is sorted in ascending order of characters automatically.

You are required to build a Java program that:

1. Uses a TreeMap<Character, Integer> to count how many times each character appears in the message.
2. Ignores spaces and considers only alphabets (case-sensitive).
3. Outputs the frequencies of characters in sorted order.

You must use a **TreeMap** in the class named **MessageAnalyzer**.

Input format :

The first line of input contains an integer n, the number of lines in the message.

The next n lines each contain a string (the encrypted message line).

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Student	raghu nandhan
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Summary Sections Filters

1 COD (1)

Question No: 1

Single File Programming Question

Problem Statement

In a ticket reservation system, you store the available seat numbers in a TreeSet. Users input their desired seat number, and the program checks whether the chosen seat is available.

Using a **TreeSet** ensures quick and efficient verification of seat availability, ensuring a smooth and organized ticket booking process.

Input format :

The first line of input contains a single integer **n**, representing the number of available seats.

The second line contains **n** space-separated integers, representing the available seat numbers.

The third line contains an integer **m**, representing the seat number that needs to be searched.

Output format :

The output displays "[m] is present!" if the given seat is available. Otherwise, it displays "[m] is not present!"

Result & Analysis

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Summary Sections Filters

1 Coding (3)

Question No: 1

Single File Programming Question

Problem Statement

Sarah is working on a **spam detection system** that analyzes incoming messages for unique patterns. Spammers often use repetitive character sequences, making it important to identify the **first non-repeating character** in a message.

Given a string, Sarah needs to determine the first character that appears only once. If all characters repeat, the system should return -1.

She decides to use a **HashMap** to efficiently track character frequencies and find the solution.

Input format :

The first line contains an integer N representing , the length of the string.

The second line contains a string of N lowercase English letters (a-z).

Output format :

Result & Analysis

Attempt 1 of 01

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Summary Sections

Filters

1 COD (4)

Question No: 1

Single File Programming Question

Problem Statement

A linguist named Meera is classifying a list of words based on their first character. She wants to store words grouped by their starting letter using a TreeMap so that the groups appear in sorted order of characters (i.e., 'a' to 'z'). For each letter, all words starting with that letter should be stored in the order they appear.

Implement the logic inside a class named **WordClassifier** using the **TreeMap<Character, List<String>>** collection.

Input format :

The first line of the input contains an integer n, representing the number of words.

The next n lines each contain a word.

Output format :

The first line of the output prints: "**Grouped Words by Starting Letter:**"