

Rajalakshmi Engineering College

Name: Madhumitha N

Email: 241901051@rajalakshmi.edu.in

Roll no: 241901051

Phone: 9840220937

Branch: REC

Department: CSE (CS) - Section 1

Batch: 2028

Degree: B.E - CSE (CS)

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2024_28_III_OOPS Using Java Lab

REC_2028_OOPS using Java_Week 9_MCQ

Attempt : 1

Total Mark : 15

Marks Obtained : 15

Section 1 : MCQ

1. What does the addFirst() method of LinkedList do?

Answer

Adds an element to the beginning of the list

Status : Correct

Marks : 1/1

2. How can you access the first element of an ArrayList named as list?

Answer

list.get(0);

Status : Correct

Marks : 1/1

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

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<Integer> list = new ArrayList<>();
        list.add(1);
        list.add(2);
        list.add(3);
        list.add(4);
        list.add(5);
        System.out.println(list.get(3));
    }
}
```

Answer

4

Status : Correct

Marks : 1/1

4. Which method is used to add an element to the top of the stack?

Answer

push()

Status : Correct

Marks : 1/1

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

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<>();
        list.add("Java");
        list.add("Python");
        list.add("Java");
        list.add("C++");
        System.out.println(list.indexOf("Java"));
    }
}
```

```
}
```

Answer

0

Status : Correct

Marks : 1/1

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

```
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Stack<Integer> s = new Stack<>();
        s.push(10);
        s.push(20);
        s.push(30);
        System.out.println(s.peek());
    }
}
```

Answer

30

Status : Correct

Marks : 1/1

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

```
import java.util.ArrayList;

public class Main {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<>();
        list.add("Apple");
        list.add("Banana");
        list.remove("Apple");
        System.out.println(list);
    }
}
```

}

Answer

[Banana]

Status : Correct

Marks : 1/1

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

```
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Stack<Integer> stack = new Stack<>();
        for (int i = 1; i <= 3; i++)
            stack.push(i * 2);
        stack.pop();
        stack.push(10);
        System.out.println(stack.peek());
    }
}
```

Answer

10

Status : Correct

Marks : 1/1

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

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<>();
        list.add("apple");
        list.add("banana");
        list.add("cherry");
        list.add("banana");
        System.out.println(list.lastIndexOf("banana"));
    }
}
```

Answer

3

Status : Correct

Marks : 1/1

10. Which of the following methods removes and returns the last element from a LinkedList?

Answer

removeLast()

Status : Correct

Marks : 1/1

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

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<Integer> list = new ArrayList<>();
        list.add(10);
        list.add(20);
        list.add(30);
        list.remove(1);
        System.out.println(list);
    }
}
```

Answer

[10, 30]

Status : Correct

Marks : 1/1

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

```
import java.util.ArrayList;
public class Main {
    public static void main(String[] args) {
```

```
ArrayList<Integer> list = new ArrayList<>();
list.add(10);
list.add(20);
list.add(30);
System.out.println("Size of the list: " + list.size());
}
}
```

Answer

Size of the list: 3

Status : Correct

Marks : 1/1

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

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<Integer> list = new ArrayList<>();
        list.add(1);
        list.add(2);
        list.add(3);
        list.add(4);
        list.set(2, 10);
        System.out.println(list);
    }
}
```

Answer

[1, 2, 10, 4]

Status : Correct

Marks : 1/1

14. What is the correct way to create an ArrayList in Java?

Answer

```
ArrayList<String> list = new ArrayList<>();
```

Status : Correct

Marks : 1/1

15. What is Collection in Java?

Answer

A group of objects

Status : Correct

Marks : 1/1

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 9_Q1

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Bobby is tasked with processing a sequence of numbers from a monitoring system. He needs to extract a strictly increasing subsequence using an ArrayList. The program should dynamically add numbers to the ArrayList only if they are greater than the last number currently stored in the list. Bobby aims to efficiently utilize the dynamic resizing and indexing features of the ArrayList to solve this problem.

Help Bobby implement this solution.

Input Format

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

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

Output Format

The output prints the list of integers in increasing sequence, ignoring out-of-order elements.

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 7
3 5 9 1 11 7 13
Output: [3, 5, 9, 11, 13]

Answer

```
import java.util.*;
class main{
    public static void main(String [] args){
        Scanner scan=new Scanner(System.in);
        int size=scan.nextInt();
        ArrayList<Integer> list=new ArrayList<Integer>() ;
        for(int i=0;i<size;i++){
            int new_ele=scan.nextInt();
            if(i!=0){
                if(new_ele>list.get(list.size()-1))
                    list.add(new_ele);
                continue;
            }
            list.add(new_ele);
        }
        System.out.println(list);
    }
}
```

Status : Correct

Marks : 10/10

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 9_Q2

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Vikram loves listening to music and wants to create a simple playlist manager using Java Collections. The playlist supports the following operations:

"ADD <song>" Adds the song to the end of the playlist."REMOVE <song>" Removes the first occurrence of the song from the playlist. If the song is not found, do nothing."SHOW" Displays all songs in the playlist in order. If the playlist is empty, print "EMPTY".NEXT" Moves to the next song in the playlist and prints its name. If the playlist is empty, print "EMPTY".

The playlist maintains a "current song" position that starts at the first song when it's added. The NEXT command moves to the next song and prints it, wrapping around to the first song after reaching the last song. When removing songs, the current position adjusts accordingly to maintain

proper navigation.

Help Vikram implement this playlist manager.

Input Format

The first line of the input consists of an integer n , the number of operations.

The next n lines, each containing a command:

- "ADD <song>"
- "REMOVE <song>"
- "SHOW"
- "NEXT"

Output Format

For each "SHOW" command, print the songs in order, separated by spaces.

For each "NEXT" command, print the next song in the playlist.

If no song exists, print "EMPTY".

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 7

ADD song1

ADD song2

SHOW

NEXT

REMOVE song2

SHOW

NEXT

Output: song1 song2

song2

song1

song1

Answer

```
// You are using Java
import java.util.LinkedList;
import java.util.Scanner;

class main{
    public static void main(String [] args){
        Scanner scan=new Scanner(System.in);
        int nos=scan.nextInt();
        scan.nextLine();
        LinkedList<String> list=new LinkedList<>();
        for(int i=0;i<nos;i++){
            String command=scan.nextLine();
            String [] div=command.split(" ");
            if(div[0].equals("ADD")){
                list.add(div[1]);
            }
            else if(div[0].equals("REMOVE")){
                list.remove(div[1]);
            }
            else if(command.equals("SHOW")){
                if(list.isEmpty()){
                    System.out.println("EMPTY");
                }
                else{for(String song:list) {
                    System.out.println(song);
                }
            }
        }
        else if(command.equals("NEXT")){
            if(list.isEmpty()){
                System.out.println("EMPTY");
            }
            else{
                System.out.println(list.getLast());
            }
        }
    }
}
```

Status : Correct

Marks : 10/10

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 9_Q3

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Assist Pranitha in developing a program that takes an integer N as input, representing the number of names to be read. Then read N names and store them in an ArrayList. Finally, input a search string and output the frequency of that string in the list of names.

Note: Some parts of the code are provided as snippets, and you need to complete the remaining sections by writing the necessary code.

Input Format

The first line of input consists of an integer N, representing the number of names to be read.

The following N lines consist of N names, as a string.

The last line consists of a string, representing the name to be searched.

Output Format

The output prints a single integer, representing the frequency of the specified name in the given list.

If the specified name is not found, print 0.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 5

Alice

Bob

Ankit

Alice

Pranitha

Alice

Output: 2

Answer

```
// You are using Java
import java.util.*;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        sc.nextLine();
        ArrayList<String> names = new ArrayList<String>();
        for(int i = 0; i < N; i++){
            names.add(sc.nextLine());
        }
        String search = sc.nextLine();
        int count = 0;
        for(String name : names){
            if(name.equals(search)){
                count++;
            }
        }
    }
}
```

```
    System.out.println(count);  
}  
}
```

Status : Correct

Marks : 10/10

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2024_28_III_OOPS Using Java Lab

REC_2028_OOPS using Java_Week 9_PAH

Attempt : 1

Total Mark : 30

Marks Obtained : 30

Section 1 : Coding

1. Problem Statement

Rekha is a teacher who wants to calculate the average of marks scored by her students in a test. She needs to store all the marks dynamically because the number of students may vary each time. Using an ArrayList allows her to easily add any number of marks without worrying about the initial size.

Help her implement the task.

Input Format

The first line of input is an integer n, representing the number of students..

The second line of input consists of n double values, representing the marks of each student, separated by a space.

Output Format

The output prints: "Average of the list: " followed by the average value formatted to two decimal places.

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 5
1.0 2.0 3.0 4.0 5.0

Output: Average of the list: 3.00

Answer

```
// You are using Java
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        ArrayList<Double> marks = new ArrayList<>();
        for (int i = 0; i < n; i++) marks.add(sc.nextDouble());
        double sum = 0;
        for (double m : marks) sum += m;
        double avg = sum / n;
        System.out.printf("Average of the list: %.2f ", avg);
    }
}
```

Status : Correct

Marks : 10/10

2. Problem Statement

Arun is building a task manager to keep track of tasks using a LinkedList. The task manager supports the following operations:

"ADD <task>" Adds the given task to the end of the list."REMOVE"
Removes the first task from the list."SHOW" Displays all tasks in the list in order. If the list is empty, print "EMPTY".

Help Arun implement this functionality using a `LinkedList`.

Input Format

The first line of the input consists of an integer `n`, the number of operations.

The next `n` lines, each containing a command:

- "ADD <task>"
- "REMOVE"
- "SHOW"

Output Format

For each "SHOW" command, the output prints the tasks in order, separated by spaces.

If no tasks exist, print "EMPTY".

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 5
ADD homework
ADD project
SHOW
REMOVE
SHOW

Output: homework project
project

Answer

```
// You are using Java
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        LinkedList<String> list = new LinkedList<>();
        for (int i = 0; i < n; i++) {
```

```
String cmd = sc.next();
if(cmd.equals("ADD")) {
String task = sc.next();
list.add(task);
} else if (cmd.equals("REMOVE")) {
if (!list.isEmpty()) list.removeFirst();
} else if (cmd.equals("SHOW")) {
if (list.isEmpty()) System.out.print("EMPTY ");
else {
for (String s : list) System.out.print(s + " ");
}
}
}
}
}
}
```

Status : Correct

Marks : 10/10

3. Problem Statement

Aditi is analyzing stock market trends and wants to find the Next Greater Element (NGE) for each stock price in a list. The Next Greater Element for an element x in an array is the first element to the right that is greater than x. If no greater element exists, return -1 for that position.

Your task is to help Aditi by efficiently computing the Next Greater Element for each element in the given array using a Stack.

Example:

Input:

6

4 5 2 10 8 6

Output:

5 10 10 -1 -1 -1

Explanation:

For each element:

4 5 (next greater element) 5 102 1010 -1 (No greater element) 8 -16 -1

Input Format

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

The second line contains n space-separated integers arr[i], where arr[i] is the stock price on the i-th day.

Output Format

The output prints n space-separated integers representing the Next Greater Element for each element in the array.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 6

4 5 2 10 8 6

Output: 5 10 10 -1 -1 -1

Answer

```
// You are using Java
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();
        int res[] = new int[n];
        Stack<Integer> st = new Stack<>();
        for (int i = n - 1; i >= 0; i--) {
            while (!st.isEmpty() && st.peek() <= arr[i]) st.pop();
            if (st.isEmpty()) res[i] = -1;
            else res[i] = st.peek();
            st.push(arr[i]);
        }
        for (int i = 0; i < n; i++) System.out.print(res[i] + " ");
    }
}
```

Status : Correct

Marks : 10/10

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2024_28_III_OOPS Using Java Lab

REC_2028_OOPS using Java_Week 9_CY

Attempt : 1

Total Mark : 40

Marks Obtained : 40

Section 1 : Coding

1. Problem Statement

Aarav is developing a music playlist application where users can manage their favorite songs. He wants to implement a feature that allows users to reorder the playlist by moving a song from one position to another.

You need to implement a function that performs the following operations using a LinkedList:

Add songs to the playlist in the given order. Move a song from a specified position to another position in the playlist. Print the final playlist after all operations.

Input Format

The first line of the input consists of an integer n representing the number of songs.

The next n lines, each containing a string representing a song name.

After the songs are given the next line contains an integer m, the number of move operations.

The next m lines, each containing two integers x and y representing the move operation where the song at position x (0-based index) should be moved to position y.

Output Format

The output prints the final playlist, each song on a new line.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 5

SongA
SongB
SongC
SongD
SongE

2

2 4
0 3

Output: SongB

SongD
SongE
SongA
SongC

Answer

```
// You are using Java
import java.util.*;
```

```
class PlaylistManager {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = Integer.parseInt(sc.nextLine().trim());
```

```
LinkedList<String> playlist = new LinkedList<>();

for (int i = 0; i < n; i++) {
    playlist.add(sc.nextLine());
}

int m = Integer.parseInt(sc.nextLine().trim());
for (int i = 0; i < m; i++) {
    int x = sc.nextInt();
    int y = sc.nextInt();
    String song = playlist.remove(x);
    playlist.add(y, song);
}

for (String song : playlist) {
    System.out.println(song);
}
}
```

Status : Correct

Marks : 10/10

2. Problem Statement

Raman, a computer science teacher, is responsible for registering students for his programming class. To streamline the registration process, he wants to develop a program that stores students' names and allows him to retrieve a student's name based on their index in the list.

Raman has decided to use an `ArrayList` to store the names of students, as it provides efficient dynamic resizing and indexing.

Write a program that enables Raman to input the names of students and fetch a student's name using the specified index. If the entered index is invalid, the program should return an appropriate message.

Input Format

The first line of input consists of an integer `n`, representing the number of students to register.

The next n lines of input consist of the names of each student, one by one.

The last line of input is an integer, representing the index (0-indexed) of the element to retrieve.

Output Format

If the index is valid (within the bounds of the ArrayList), print "Element at index [index]: " followed by the element (student name as string).

If the index is invalid, print "Invalid index".

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 5

Alice

Bob

Ankit

Alice

Prajit

2

Output: Element at index 2: Ankit

Answer

```
// You are using Java
import java.util.*;
class Main {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        int n = scan.nextInt();
        scan.nextLine();
        ArrayList<String> students = new ArrayList<>();
        for(int i = 0; i < n; i++) {
            students.add(scan.nextLine());
        }
        int index = scan.nextInt();
        if(index >= 0 && index < students.size()) {
            System.out.println("Element at index " + index + ": " + students.get(index));
        }
    }
}
```

```
        } else {
            System.out.println("Invalid index");
        }
    }
}
```

Status : Correct

Marks : 10/10

3. Problem Statement

Sarah, a warehouse manager, is managing a list of product names in her store's inventory system. She needs to perform basic operations like adding (inserting) new products, removing products that are sold out or discontinued, displaying all the products in stock, and searching for a specific product in the inventory list.

Sarah's goal is to manage the inventory using a list of product names (strings). The system allows her to perform the following operations using `ArrayList`:

Insert a Product: Sarah adds a new product to the inventory.
Delete a Product: Sarah removes a product from the inventory when it's sold or discontinued.
Display the Inventory: Sarah checks all the products currently available in the inventory.
Search for a Product: Sarah searches for a specific product in the inventory to check if it's available.

Input Format

The input consists of multiple space-separated values representing different operations on a product list. Each operation follows a specific format:

- 1 <product_name> - Adds <product_name> to the product list.
- 2 <product_name> - Removes <product_name> from the product list if it exists.
- 3 - Print all products currently on the list.
- 4 <product_name> - Checks if <product_name> exists in the list.

Output Format

The output displays,

For (choice 1) prints, " <item> has been added to the list."

For (choice 2) prints, " <item> has been removed from the list."

For (choice 3) prints, "Items in the list:" followed by each item in the list on a new line, or "The list is empty." if the list is empty.

For (choice 4) prints, " <item> is found in the list." or " <item> not found in the list."

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 1 apple 1 banana 2 apple 3 4 apple

Output: apple has been added to the list.

banana has been added to the list.

apple has been removed from the list.

Items in the list:

banana

apple not found in the list.

Answer

```
import java.util.ArrayList;
import java.util.Scanner;

class StringListOperations {
    public static void insertItem(ArrayList<String> list, String item) {
        list.add(item);
        System.out.println(item + " has been added to the list.");
    }

    public static void deleteItem(ArrayList<String> list, String item) {
        if (list.remove(item)) {
            System.out.println(item + " has been removed from the list.");
        }
    }

    public static void displayList(ArrayList<String> list) {
        if (list.isEmpty()) {
```

```
        System.out.println("The list is empty.");
    } else {
        System.out.println("Items in the list:");
        for (String item : list) {
            System.out.println(item);
        }
    }
}

public static void searchItem(ArrayList<String> list, String item) {
    if (list.contains(item)) {
        System.out.println(item + " is found in the list.");
    } else {
        System.out.println(item + " not found in the list.");
    }
}

public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    ArrayList<String> list = new ArrayList<>();
    String[] commands = sc.nextLine().split(" ");

    for (int i = 0; i < commands.length; i++) {
        int choice = Integer.parseInt(commands[i]);
        switch (choice) {
            case 1:
                insertItem(list, commands[++i]);
                break;
            case 2:
                deleteItem(list, commands[++i]);
                break;
            case 3:
                displayList(list);
                break;
            case 4:
                searchItem(list, commands[++i]);
                break;
        }
    }
}
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        ArrayList<String> list = new ArrayList<>();  
  
        String input = sc.nextLine();  
        String[] commands = input.split(" ");  
        int i = 0;  
        while (i < commands.length) {  
            int choice = Integer.parseInt(commands[i]);  
            switch (choice) {  
                case 1:  
                    if (i + 1 < commands.length) {  
                        StringListOperations.insertItem(list, commands[i + 1]);  
                        i += 2;  
                    } else {  
                        System.out.println("No string provided for insertion.");  
                        i++;  
                    }  
                    break;  
                case 2:  
                    if (i + 1 < commands.length) {  
                        StringListOperations.deleteItem(list, commands[i + 1]);  
                        i += 2;  
                    } else {  
                        System.out.println("No string provided for deletion.");  
                        i++;  
                    }  
                    break;  
                case 3:  
                    StringListOperations.displayList(list);  
                    i += 1;  
                    break;  
                case 4:  
                    if (i + 1 < commands.length) {  
                        StringListOperations.searchItem(list, commands[i + 1]);  
                        i += 2;  
                    } else {  
                        System.out.println("No string provided for searching.");  
                        i++;  
                    }  
                    break;  
            }  
        }  
    }  
}
```

```
    }  
}  
}
```

Status : Correct

Marks : 10/10

4. Problem Statement

A teacher is filtering a list of words provided by students. Some words contain too many vowels, making them difficult for a spelling competition. The teacher decides to remove all words that contain more than two vowels.

Help the teacher to implement it using ArrayList.

Input Format

The first line contains an integer N, representing the number of words in the list.

The next N lines contain a string representing the words (one per line).

Output Format

The output consists of words that contain two or less than two vowels, printed in the same order they appeared in the input. Each word is printed on a new line.

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 1

sri

Output: sri

Answer

```
import java.util.ArrayList;  
import java.util.Scanner;  
// You are using Java
```

```
class VowelFilter {  
    //Type your code here  
    public static void filterWords(int n, Scanner sc) {  
        ArrayList<String> result = new ArrayList<>();  
        for (int i = 0; i < n; i++) {  
            String word = sc.nextLine();  
            int vowelCount = 0;  
            for (char c : word.toCharArray()) {  
                if ("aeiou".indexOf(c) != -1) {  
                    vowelCount++;  
                }  
            }  
            if (vowelCount <= 2) {  
                result.add(word);  
            }  
        }  
        for (String word : result) {  
            System.out.println(word);  
        }  
    }  
  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n = Integer.parseInt(sc.nextLine());  
        filterWords(n, sc);  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n = sc.nextInt();  
        sc.nextLine();  
        VowelFilter.filterWords(n, sc);  
        sc.close();  
    }  
}
```

Status : Correct

Marks : 10/10