Rajalakshmi Engineering College

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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

```
import java.util.*;

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

        // Step 1: Read number of names
        int n = sc.nextInt();
        sc.nextLine(); // consume newline


        ArrayList<String> names = new ArrayList<>();


        for (int i = 0; i < n; i++) {
            String name = sc.nextLine();
            names.add(name);
        }
```

```
        // Step 4: Read the name to search
        String searchName = sc.nextLine();

        // Step 5: Count how many times searchName appears
        int count = 0;
        for (String name : names) {
            if (name.equals(searchName)) { // Case-sensitive comparison
                count++;
            }
        }

        // Step 6: Print the frequency
        System.out.println(count);

        sc.close();
    }
}
```

Status : Correct **Marks : 10/10**