

Rajalakshmi Engineering College

Name: Sowmya Rajarajan
Email: 241001256@rajalakshmi.edu.in
Roll no: 241001256
Phone: 9363195179
Branch: REC
Department: IT - Section 3
Batch: 2028
Degree: B.E - IT

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

```
        int N = sc.nextInt(); // number of names  
        sc.nextLine(); // consume the remaining newline
```

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

```
        // Read N names  
        for (int i = 0; i < N; i++) {  
            String name = sc.nextLine();  
            namesList.add(name); // whitelist method  
        }
```

```
// Read the search string
String searchName = sc.nextLine();

// Count the frequency
int count = 0;
for (String name : namesList) {
    if (name.equals(searchName)) {
        count++;
    }
}

// Print the frequency
System.out.println(count);
sc.close();
}
```

Status : Correct

Marks : 10/10