

# Rajalakshmi Engineering College

Name: Nandana Pramod

Email: 241801180@rajalakshmi.edu.in

Roll no: 241801180

Phone: 8921798701

Branch: REC

Department: AI & DS - Section 1

Batch: 2028

Degree: B.E - AI & DS

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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.ArrayList;
import java.util.Scanner;
class NameFrequency {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        sc.nextLine();

        ArrayList<String> names = new ArrayList<>();
        for (int i = 0; i < N; i++) {
            names.add(sc.nextLine());
        }

        String searchName = sc.nextLine();
        int count = 0;
        for (String name : names) {
            if (name.equals(searchName)) count++;
        }
    }
}
```

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

**Status :** Correct

**Marks :** 10/10