

# Rajalakshmi Engineering College

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Batch: 2028

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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.ArrayList;
import java.util.Scanner;

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

        int n = scanner.nextInt();
        scanner.nextLine(); // consume the newline

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

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

```
String searchName = scanner.nextLine();

int frequency = 0;
for (String name : names) {
    if (name.equals(searchName)) {
        frequency++;
    }
}

System.out.println(frequency);

scanner.close();
}
```

**Status : Correct**

**Marks : 10/10**