

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

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

```
        String searchName = sc.nextLine();  
        int count = 0;
```

```
        for (int i = 0; i < names.size(); i++) {  
            if (names.get(i).equals(searchName)) {  
                count++;  
            }  
        }  
  
        System.out.println(count);  
        sc.close();  
    }  
}
```

**Status :** Correct

**Marks :** 10/10