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State	Finished
Completed on	Monday, 1 January 2024, 4:00 PM
Time taken	1 hour 59 mins

Question **1**

Correct

Marked out of 25.00

While entering user names, We have to be very careful about the duplicate entries in the list.

To make a correct and perfect report, we have to remove the duplicate elements in the list. Write a program that obtain a set of names and a search element and print it's frequency.

Input Format :

The first line of the input consists of the number of names.

Next input is the user names.

The last input is the user name to be searched.

Output Format :

The output prints the frequency of the searched element.

Sample testcases :

Testcase 1 Input

5

alice

bob

ankit

alice

prajit

alice

Testcase 1 Output

2

For example:

Input	Result
5 alice bob ankit alice prajit alice	2

Answer: (penalty regime: 0 %)

```
1 import java.util.*;
2 public class Names{
3     public static void main(String[] args)
4     {
5         Scanner sc = new Scanner(System.in);
6         List <String> names = new ArrayList<String>();
7         int n = sc.nextInt();
8         sc.nextLine();
9         for(int i=0;i<n;i++)
10        {
11            names.add(sc.nextLine());
12        }
13        int c=0;
14        String search = sc.nextLine();
15        for(int i=0;i<n;i++)
16        {
17            if((names.get(i)).equals(search))
18            {
19                c+=1;
20            }
21        }
22        System.out.print(c);
23    }
```

	Input	Expected	Got	
✓	5 alice bob ankit alice prajit alice	2	2	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 25.00

Write a program to get the hall name details and store in the ArrayList and search the hall and display it's position details.

Get hall names in the Main class and store it an ArrayList. Hall number is nothing but the position at which the hall is present in the list starting from 0.

Refer sample input/output for other further details and format of the output.

Input Format :

The first line of the input is the number of halls.

Next input is the hall names.

The last input is the hall name to be searched.

Output Format :

The output prints the index of hall name if present otherwise hall not found. Refer sample output.

Sample testcases :

Testcase 1 Input

3

SPK

DFG

TRE

DFG

Testcase 1 Output

1

Testcase 2 Input

3

SPJ

RWE

HFG

SPK

Testcase 2 Output

SPK hall is not found

For example:

Input	Result
3 SPK DFG TRE DFG	1
3 SPJ RWE HFG SPK	SPK hall is not found

Answer: (penalty regime: 0 %)

```
1 import java.util.*;  
2 public class HallNames{  
3     public static void main(String[] args)  
4     {  
5         Scanner sc = new Scanner(System.in);  
6         int n = sc.nextInt();  
7         sc.nextLine();  
8         ArrayList<String> hallNames = new ArrayList<String>();
```

```

8      int flag=0,ind=0;
9      List <String> halls = new ArrayList<String>();
10     for(int i=0;i<n;i++)
11     {
12         halls.add(sc.nextLine());
13     }
14     String search = sc.nextLine();
15     for(int i=0;i<n;i++)
16     {
17         if((halls.get(i)).equals(search))
18         {
19             flag=1;
20             ind=i;
21             break;
22         }
23     }
24     if(flag==1)
25     {
26         System.out.print(ind);
27     }
28     else
29     {
30         System.out.println(search+" hall is not found");
31     }
32 }
33 }

```

	Input	Expected	Got	
✓	3 SPK DFG TRE DFG	1	1	✓
✓	3 SPJ RWE HFG SPK	SPK hall is not found	SPK hall is not found	✓

Passed all tests! ✓

Question **3**

Incorrect

Marked out of 25.00

Use **remove()** and **isEmpty()** methods of the ArrayList API and implement them in our application. let's experiment with Hall class for performing these methods.

Create a class named **Hall** having the following private attributes.

Include getters and Setters for the attributes

Include default and parameterized constructors.

Format for parameterized constructor is

Hall(String name, String contactNumber, Double costPerDay,String ownerName)

The Hall class contains the following method.

Attributes	Datatype
name	String
contactNumber	String
costPerDay	Double
ownerName	String

Method name	Description
void display()	This method prints the details of the Hall object. Refer Sample I/O for specification

Create a driver class called Main. In the Main method, obtain input from the console If the list is empty and a remove action is performed display "The list is empty" and terminate. Display the Hall details by iterating the Hall List and calling display() method after remove action.

Hint: Use isEmpty() and remove() methods of ArrayList api.

Use System.out.printf("%-20s%-20s%-20s%-20s") for displaying the Hall details in tabular form.

Note: Strictly adhere to the Object-Oriented Specifications given in the problem statement.

All class names, attribute names and method names should be the same as specified in the problem statement.

Input Format :

The first line of the input consists of n.

Next input is the hall details.

The next input is the index of the element to be deleted.

Output Format :

The output displays the hall details in tabular format after removing the element.

Sample testcases :

Testcase 1 Input

3

RR hall

9854785654

455

Rajesh

KK hall

95478563221

258

Karthik

PP hall

9632541578

357

Praveen

1

Testcase 1 Output

Name	Contact Number	CostperDay	Owner Name
RR hall	9854785654	455.0	Rajesh
PP hall	9632541578	357.0	Praveen

Testcase 2 Input

0

2

Testcase 2 Output

The list is empty

For example:

Input	Result															
3 RR hall 9854785654 455 Rajesh KK hall 95478563221 258 Karthik PP hall 9632541578 357 Praveen 1	<table><tr><th>Name</th><th>Contact Number</th><th>CostperDay</th><th>Owner Name</th></tr><tr><td>RR hall</td><td>9854785654</td><td>455.0</td><td>Rajesh</td></tr><tr><td>PP hall</td><td>9632541578</td><td>357.0</td><td>Praveen</td></tr></table>				Name	Contact Number	CostperDay	Owner Name	RR hall	9854785654	455.0	Rajesh	PP hall	9632541578	357.0	Praveen
Name	Contact Number	CostperDay	Owner Name													
RR hall	9854785654	455.0	Rajesh													
PP hall	9632541578	357.0	Praveen													
0 2	The list is empty															

Answer: (penalty regime: 0 %)

```
1 import java.util.*;
2 public class Hall{
3     public static void main(String[] args)
4     {
5         Scanner sc = new Scanner(System.in);
6         int n = sc.nextInt();
7         sc.nextLine();
8         List<String> name=new ArrayList<String>();
9         List<String> num=new ArrayList<String>();
10        List<Double> cost=new ArrayList<Double>();
11        List<String> owner=new ArrayList<String>();
12        for(int i=0;i<n;i++)
13        {
14            name.add(sc.nextLine());
15            num.add(sc.nextLine());
16            cost.add(sc.nextDouble());
17            owner.add(sc.nextLine());
18        }
19        int r = sc.nextInt();
20        String names="Names";
21        String nums="Contact Number";
22        String cpd="CostperDay";
23        String on="Owner Name";
24        if(n==0)
25        {
26            System.out.println("The list is empty");
27        }
28
29        for(int i=0;i<n;i++)
30        {
```

```

30     {
31         if(i==0)
32         {
33             System.out.printf("%-20s%-20s%-20s%-20s",names,nums,cpd,on);
34             System.out.println();
35         }
36         if(i!=r)
37         {
38             System.out.printf("%-20s%-20s%-20f%-20s",name.get(i),num.get(i),cost.get(i),owner.get(i));
39             System.out.println();
40         }
41     }
42 }
43 }
44 }

```

	Input	Expected		Got	
✖	3 RR hall 9854785654 455 Rajesh KK hall 95478563221 258 Karthik PP hall 9632541578 357 Praveen 1	Name CostperDay RR hall 455.0 PP hall 357.0	Contact Number Owner Name 9854785654 Rajesh 9632541578 Praveen	***Run error*** Exception in thread "main" java.util.InputMismatchException at java.base/java.util.Scanner.throwFor(Scanner.java:939) at java.base/java.util.Scanner.next(Scanner.java:1594) at java.base/java.util.Scanner.nextDouble(Scanner.java:2564) at Hall.main(Hall.java:16)	✖

Testing was aborted due to error.

Your code must pass all tests to earn any marks. Try again.

Show differences

Question **4**

Correct

Marked out of 25.00

Create a class ArrayListMain and in the main method get the names and store them in an ArrayList. After getting all the names, just display them in the same order.

Input Format :

Number of names(N) in first line as integer

N names in separate lines

Output Format :

Print the names

Sample testcases :

Testcase 1 Input

6

KL Rahul

Hetmyer

Pierre

Dube

Walsh

Pant

Testcase 1 Output

KL Rahul

Hetmyer

Pierre

Dube

Walsh

Pant

For example:

Input	Result
6	KL Rahul
KL Rahul	Hetmyer
Hetmyer	Pierre
Pierre	Dube
Dube	Walsh
Walsh	Pant
Pant	

Answer: (penalty regime: 0 %)

```
1 import java.util.*;
2 public class ArrayListMain
3 {
4     public static void main(String[] args)
5     {
6         Scanner sc = new Scanner(System.in);
7         List <String> names = new ArrayList<String>();
8         int n = sc.nextInt();
9         sc.nextLine();
10        for(int i=0;i<n;i++)
11        {
12            names.add(sc.nextLine());
13        }
14        for(int i=0;i<n;i++)
15        {
16            System.out.println(names.get(i));
17        }
18    }
```

	Input	Expected	Got	
✓	6 KL Rahul Hetmyer Pierre Dube Walsh Pant	KL Rahul Hetmyer Pierre Dube Walsh Pant	KL Rahul Hetmyer Pierre Dube Walsh Pant	✓

Passed all tests! ✓