



Browser tabs: NEXT Interview Assignment Task, (18) WhatsApp, Online Java Compiler - Program

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- Mail header: NEXT Interview Assignment Task (Inbox x)
- From: Recruitment <recruitment@hashagile.com> to Recruitment
- Date: 11:17 AM (10 hours ago)
- Body text:

Dear Candidate,

Greetings!

We appreciate your participation and continued effort in completing the online test!

Due to the overwhelming response, we received, we are looking for one more online test with an enhanced set of questions to help achieve the final milestone. Your participation in this test is crucial, and based on your program output and the results, you will be invited for an in-person technical interview at our office in Coimbatore Location.

Please stick to your previous assignment and complete the next assignment with the following details.

 - **Function Definitions**
 1. createCollection(p_collection_name)

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Main.java

```
1- import java.util.*;
2- import java.util.stream.Collectors;
3
4- class Employee {
5-     String id;
6-     String name;
7-     String department;
8-     String gender;
9
10-     public Employee(String id, String name, String
        department, String gender) {
11-         this.id = id;
12-         this.name = name;
13-         this.department = department;
14-         this.gender = gender;
15-     }
16- }
17
18- class CollectionManager {
19-     Map<String, List<Employee>> collections = new HashMap
```

Output

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Main.java

```
17
18- class CollectionManager {
19-     Map<String, List<Employee>> collections = new HashMap
        <>();
20
21-     public void createCollection(String p_collection_name) {
22-         collections.put(p_collection_name, new ArrayList
        <>());
23-         System.out.println("Created collection: " +
        p_collection_name);
24-     }
25-     public void indexData(String p_collection_name, String
        p_exclude_column) {
26-         List<Employee> employees = collections.get
        (p_collection_name);
27
28-         if (p_exclude_column.equalsIgnoreCase("Department"))
        {
29-             for (Employee emp : employees) {
30-                 emp.department = null;
```

Output

Clear

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JS

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Main.java

```
30 emp.department = null;
31 }
32 } else if (p_exclude_column.equalsIgnoreCase
    ("Gender")) {
33     for (Employee emp : employees) {
34         emp.gender = null;
35     }
36 }
37 System.out.println("Indexed data into collection: "
    + p_collection_name + " excluding column: " +
    p_exclude_column);
38 }
39 public List<Employee> searchByColumn(String
    p_collection_name, String p_column_name, String
    p_column_value) {
40     List<Employee> employees = collections.get
        (p_collection_name);
41     List<Employee> result = new ArrayList<>();
42
43     if (p_column_name.equalsIgnoreCase("Department")) {
44         result = employees.stream().filter(emp ->
```

Output

Clear

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Main.java

```
43 if (p_column_name.equalsIgnoreCase("Department")) {
44     result = employees.stream().filter(emp ->
        p_column_value.equals(emp.department
        )).collect(Collectors.toList());
45 } else if (p_column_name.equalsIgnoreCase("Gender"))
    {
46     result = employees.stream().filter(emp ->
        p_column_value.equals(emp.gender)).collect
        (Collectors.toList());
47     }
48     return result;
49 }
50 public int getEmpCount(String p_collection_name) {
51     return collections.get(p_collection_name).size();
52 }
53 public void delEmpById(String p_collection_name, String
    p_employee_id) {
54     List<Employee> employees = collections.get
        (p_collection_name);
55     employees.removeIf(emp -> emp.id.equals
```

Output

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Main.java

```
43 - if (p_column_name.equalsIgnoreCase("Department")) {
44 -     result = employees.stream().filter(emp ->
45 -         p_column_value.equals(emp.department)
46 -     ).collect(Collectors.toList());
47 - } else if (p_column_name.equalsIgnoreCase("Gender")) {
48 -     result = employees.stream().filter(emp ->
49 -         p_column_value.equals(emp.gender)).collect
50 -     (Collectors.toList());
51 - }
52 - return result;
53 - public int getEmpCount(String p_collection_name) {
54 -     return collections.get(p_collection_name).size();
55 - }
56 - public void delEmpById(String p_collection_name, String
57 -     p_employee_id) {
58 -     List<Employee> employees = collections.get
59 -     (p_collection_name);
60 -     employees.removeIf(emp -> emp.id.equals
```

Output

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Main.java

```
65 - public class EmployeeCollection {
66 -     public static void main(String[] args) {
67 -         CollectionManager manager = new CollectionManager();
68 -
69 -         String v_nameCollection = "Hash_Anushruthik";
70 -         String v_phoneCollection = "Hash_7883";
71 -
72 -         manager.createCollection(v_nameCollection);
73 -         manager.createCollection(v_phoneCollection);
74 -
75 -         manager.collections.get(v_nameCollection).add(new
76 -             Employee("E02001", "Aravind", "IT", "Male"));
77 -         manager.collections.get(v_nameCollection).add(new
78 -             Employee("E02002", "Jaya", "HR", "Female"));
79 -         manager.collections.get(v_nameCollection).add(new
80 -             Employee("E02003", "Dhanush", "IT", "Male"));
81 -
82 -         manager.collections.get(v_phoneCollection).add(new
83 -             Employee("E02004", "Aswin", "Sales", "Male"));
84 -         manager.collections.get(v_phoneCollection).add(new
```

Output

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Main.java

```
81
82     System.out.println("Employee Count (Name Collection)");
83     ); " + manager.getEmpCount(v_nameCollection));
84     manager.indexData(v_nameCollection, "Department");
85     manager.indexData(v_phoneCollection, "Gender");
86
87     manager.delEmpById(v_nameCollection, "E02003");
88
89     System.out.println("Employee Count (Name Collection)
      after deletion: " + manager.getEmpCount
      (v_nameCollection));
90
91
92     List<Employee> itEmployees = manager.searchByColumn
      (v_nameCollection, "Department", "IT");
93     System.out.println("IT Employees (Name Collection):
      " + itEmployees.size());
94
95     List<Employee> maleEmployees = manager
```

Output

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Main.java

```
96     System.out.println("Male Employees (Name Collection)");
97     ); " + maleEmployees.size());
98     List<Employee> itPhoneEmployees = manager
      .searchByColumn(v_phoneCollection, "Department",
      "IT");
99     System.out.println("IT Employees (Phone Collection):
      " + itPhoneEmployees.size());
100
101     Map<String, Long> nameCollectionFacet = manager
      .getDepFacet(v_nameCollection);
102     System.out.println("Department Facet (Name
      Collection): " + nameCollectionFacet);
103
104     Map<String, Long> phoneCollectionFacet = manager
      .getDepFacet(v_phoneCollection);
105     System.out.println("Department Facet (Phone
      Collection): " + phoneCollectionFacet);
106 }
107 }
```

Output

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Main.java

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```
97     }.addAll(maleEmployees);
98     List<Employee> itPhoneEmployees = manager
99         .searchByColumn(v_phoneCollection, "Department",
100             "IT");
101     System.out.println("IT Employees (Phone Collection): "
102         + itPhoneEmployees.size());
103
104     Map<String, Long> nameCollectionFacet = manager
105         .getDepFacet(v_nameCollection);
106     System.out.println("Department Facet (Name
107         Collection): " + nameCollectionFacet);
108
109     Map<String, Long> phoneCollectionFacet = manager
110         .getDepFacet(v_phoneCollection);
111     System.out.println("Department Facet (Phone
112         Collection): " + phoneCollectionFacet);
113 }
114 }
```

Output

Clear

```
java -cp /tmp/g9nmvzGwgm/EmployeeCollection
Created collection: Hash_Anushruthik
Created collection: Hash_7883
Employee Count (Name Collection): 3
Indexed data into collection: Hash_Anushruthik excluding column:
Department
Indexed data into collection: Hash_7883 excluding column: Gender
Deleted employee with ID: E02003
Employee Count (Name Collection) after deletion: 2
IT Employees (Name Collection): 0
Male Employees (Name Collection): 1
IT Employees (Phone Collection): 0
Department Facet (Name Collection): {}
Department Facet (Phone Collection): {Sales=1, HR=1}

=== Code Execution Successful ===
```

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