National Cadet Corps

**Grade settings**: Maximum grade: 100  
**Disable external file upload, paste and drop external content**: Yes  
**Based on**: [National Cadet Corps](https://cognizant.tekstac.com/mod/vpl/view.php?id=80050)  
**Run**: Yes **Evaluate**: Yes  
**Automatic grade**: Yes

National Cadet Corps is a well-known organization across the country. They wanted to get the Cadet details based on their group name. The manager intimates a software developer to help in their process. You, being the software developer, develop a Java program based on the requirement.

**Component Specification: NCCCadetDetailsMain Class**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Attributes** | **Methods** |
| **NCCCadetDetailsMain** | private Map<String, String> **detailsMap** | Getter and setter methods for the attribute are included in the code skeleton. |

***Note:****Here the detailsMap, holds the Key as CadetId and Value as groupName.*

**Requirement 1: Find the number of Cadets based on the given groupName.**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Methods** | **Responsibilities** |
| **NCCCadetDetailsMain** | public int **findTheNumberOfDetailsBasedOnTheGroupName**(String groupName) | This method accepts groupName as an argument. If the groupName matches the groupName present in the Map, it must count the records and return the count. Else return -1.  ***Note:  groupName is a case-insensitive*** |

**Requirement 2: Filter the Cadets based on the groupName**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Methods** | **Responsibilities** |
| **NCCCadetDetailsMain** | public List<String> **findCadetsBasedOnGroupName**(String groupName) | This method filters the detailsMap and returns the list of CadetIds that belong to the same groupName .  ***Note:  groupName is a case-insensitive*** |

**You are provided with the main method as code template and it is excluded from evaluation.**

**Note:**

* In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
* Ensure to follow the object-oriented specifications provided in the question description.
* Ensure to provide the names for the classes, attributes, and methods as specified in the question description.
* Adhere to the code template, if provided.

**Sample Input/Output 1:**

Enter number of details to be added

**3**

Enter the details (Cadet Id: Group Name)

**Cadet384:GirlsBN**

**Cadet283:CTR**

**Cadet329:girlsBN**

Enter the group name to be searched

**GIRLSBN**

The details based on GIRLSBN are 2

Enter the group name to identify the Cadet

**ctr**

Details based on the ctr group are

**Cadet283**

**Sample Input/Output 2:**

Enter number of details to be added

**2**

Enter the details (Cadet Id: Group Name)

**Cadet438:COY**

**Cadet349:CTC**

Enter the group name to be searched

**MED**

No details were found for MED

Enter the group name to identify the Cadet

**CTC**

Details based on the CTS group are 

**Cadet349**

**Sample Input/Output 3:**

Enter number of details to be added

**2**

Enter the details (Cadet Id: Group Name)

**Cadet438:COY**

**Cadet349:CTC**

Enter the group name to be searched

**COY**

The details based on COY are 1

Enter the group name to identify the Cadet

**INF**

No Cadets were found for the group INF