**University - Requirement 6**

**Requirement 6:**  
  
In this requirement, given a list of colleges, you need to find the number of colleges present in a location using Map.  
  
a) Create a Class College with the following attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| name | String |
| website | String |
| mobile | String |
| founder | String |
| numberOfDept | Integer |
| location | String |
| createdDate | java.util.Date |

Mark all the attributes as private, Create / Generate appropriate Getters & Setters. Add a default constructor and a parameterized constructor to take in all attributes in the given order: **College(String name, String website, String mobile,String founder, Integer numberOfDept, String location,Date startingDate)**  
  
b) Create the following static methods in the College class,

|  |  |
| --- | --- |
| **Method Name** | **Description** |
| static Map<String,Integer> calculateLocationCount(List<College> list) | This method accepts a list of College as arguments and returns a TreeMap with the location as key and number of colleges present on the location as value and returns the map. |

In the TreeMap have the location as key and Count the number of colleges present on the location and keep the number of colleges as value. Print the value sorted by location.  
  
The college details should be given as a comma-separated value in the below order,  
name, website, mobile, founder, numberOfDept, location, startingDate  
  
Print format:  
**System.out.format("%-15s %s\n","Location","Count");**  
  
**Sample Input and Output 1:**

Enter the number of colleges:

**4**

**IIT Madras,www.iitm.ac.in/,9876543210,Govt of India,15,Chennai,30-05-1959**

**IIT Delhi,www.iitd.ac.in/,9876543213,Govt of India,14,Delhi,15-05-1958**

**MIT,www.mitindia.edu/,9876542320,Govt of India,11,Chennai,12-05-1949**

**JNU,www.jnu.ac.in/,9879879877,Govt of India,10,Delhi,13-05-1969**

|  |  |
| --- | --- |
| Location | Count |
| Chennai | 2 |
| Delhi | 2 |

**Test Cases**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Assign Groups](https://cognizant.e-box.co.in/problem/showTestcaseGroup/8267)   | **SNo** | **Name** | **Input** | **Output** | **Purpose** | **Sample** | | --- | --- | --- | --- | --- | --- | | 1 | s2 | 4 IIT Guwahati,www.iitg.ac.in/,9876543214,Govt of India,10,Guwahati,17-05-1994 VIT,www.vit.ac.in/,9876543217,Viswanathan,13,Vellore,10-06-1984 IIT Roorkee,www.iitr.ac.in/,9876543215,Govt of India,8,Roorkee,22-05-2001 BITS,www.bits.ac.in/,9876543218,Das Birla,12,Pilani,11-06-1964 | Enter the number of colleges: Location        Count Guwahati        1 Pilani          1 Roorkee         1 Vellore         1 | General |  | | 2 | s4 | 3 IIT Madras,www.iitm.ac.in/,9876543210,Govt of India,15,Chennai,30-05-1959 MIT,www.mitindia.edu/,9876542320,Govt of India,11,Chennai,12-05-1949 AAA,www.aaa.ac.in/,9876543218,Aditiya,12,Chennai,11-06-1964 | Enter the number of colleges: Location        Count Chennai         3 | General |  | | 3 | s3 | 5 IIT Madras,www.iitm.ac.in/,9876543210,Govt of India,15,Chennai,30-05-1959 IIT Delhi,www.iitd.ac.in/,9876543213,Govt of India,14,Delhi,15-05-1958 MIT,www.mitindia.edu/,9876542320,Govt of India,11,Chennai,12-05-1949 JNU,www.jnu.ac.in/,9879879877,Govt of India,10,Delhi,13-05-1969 AAA,www.aaa.ac.in/,9876543218,Aditiya,12,Chennai,11-06-1964 | Enter the number of colleges: Location        Count Chennai         3 Delhi           2 | General |  | | 4 | s1 | 4 IIT Madras,www.iitm.ac.in/,9876543210,Govt of India,15,Chennai,30-05-1959 IIT Delhi,www.iitd.ac.in/,9876543213,Govt of India,14,Delhi,15-05-1958 MIT,www.mitindia.edu/,9876542320,Govt of India,11,Chennai,12-05-1949 JNU,www.jnu.ac.in/,9879879877,Govt of India,10,Delhi,13-05-1969 | Enter the number of colleges: Location        Count Chennai         2 Delhi           2 | General |  | |