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Create a class **Museum** with below attributes:

**museumId** – int

**museumName** – String

**museumLocation** – String

**established** – int

**rating** – double

**researchCentre** – boolean

Write getters, setters for the above attributes. Create constructor which takes parameter in the above sequence.

Create class **MyClass** with main method.

Implement two static methods – **getCountOfResearchBasedOnRating** and **getSecondOldMuseumBasedOnLocation** in Solution class

**getCountOfResearchBasedOnRating method:** This method will take two input parameters – array of Museum objects, and a double parameter. The method will calculate the count of museums whose research center attribute is true and rating is greater than or equal to the given rating (double parameter passed) and return the count(as int).

If no Museum with the matching condition is present in the array of Museum objects, then the method should return 0.

**getSecondOldMuseumBasedOnLocation method:** This method will take a String parameter and an array of Museum objects as the other parameter. The method will return the second oldest museum from the array of Museum object for the given location (the String parameter passed). If no Museum matches with the given String parameter(location) is present in the array of Museum objects, then the method should return null.

**Note:**

*Either 2 or more Museum in particular location should be present in the array or no museum*

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*Either 2 or more Museum in particular location should be present in the array or no museum should be present in the given location.*

*No two museum will have same established year in same location.*

*All the searches should be case insensitive.*

The above mentioned static methods should be called from the main method.

**For getCountOfResearchBasedOnRating method:** The main method should print the count as it is if the returned value is greater than 0.

ex: 2

Where 2 is the count.

If the returned value 0 then it should print **"No such Museums"**

**For getSecondOldMuseumBasedOnLocation method:** The main method should print the second oldest museum name along with the established year, if the returned value is not null otherwise it should print **"No matching museum"**.

Ex: General Museum

1946

where General Museum is the museum name and 1946 is the established year.

Before calling these static methods in main, use Scanner object to read the values of five Museum object referring attributes in the above mentioned attribute sequence.

Next, read the value of a String parameter for capturing location and double parameter for rating.

## Explanation

We need to develop a java code which creates two classes i.e MyClass and Museum.

In solution class, we need to write main() method and initialize all variables in this method.

Create two static methods in the MyClass class i.e.

**getCountOfResearchBasedOnRating and getSecondOldMuseumBasedOnLocation**

Apply the required logic in these static methods by following all the constraints in the question and return the results to the main() method.

Finally, display all the results what we got to the output screen.