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**Customer Table Booking - Requirement 2**

**Requirement 2:**

One of the main features of any application is searching. In this requirement, you need to search customers based on name, birthdate, and rating.  
  
a) Create a Customer Class with the following private attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| id | Long |
| name | String |
| mobileNumber | String |
| birthdate | java.util.Date |
| averageSpendAmount | Double |
| totalAmount | Double |
| dateEnrolled | java.util.Date |
| rating | Double |

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:**Customer(Long id, String name, String mobileNumber, java.util.Date birthdate, Double averageSpendAmount, Double totalAmount, java.util.Date dateEnrolled, Double rating)**  
  
b) Create the following static methods in the**ContactBO** class,

|  |  |
| --- | --- |
| **Method Name** | **Description** |
| static Customer createCustomer(String line) | This method accepts a String as argument. Comma-separated Customer detail is passed to this method. Split the value then create a customer object and return the customer object. |
| static List<Customer> findCustomer(List<Customer> customerList,String name) | This method accepts customer list and a customer name as arguments. Find the list of customers with given name and return the list. If no customers found with the given name return null. |
| static List<Customer> findCustomer(List<Customer> customerList,Date birth) | This method accepts customer list and birth date as arguments. Find the list of customers with the given birth date and return the list. If no customers found with the givenbirth date return null. |
| static List<Customer> findCustomer(List<Customer> customerList,Double rating) | This method accepts customer list and rating as arguments. Find the list of customers with the given rating value and return the list. If no customers found with the givenrating return null. |

The input format consists of customer details separated by comma in the below order,  
(id, name, mobileNumber, birthdate, averageSpendAmount, totalAmount, dateEnrolled, rating)  
  
When the “customer” object is printed, it should display the following format  
Print format:  
**System.out.format("%-5s %-15s %-15s %-15s %-20s %-15s %-15s %s\n", "Id","Name","Mobile Number","Date of Birth","Average spent amount","Total amount","Date Enrolled","Rating");**  
  
**Sample INPUT & OUTPUT 1:**  
  
Enter the number of customers:  
**3  
1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3  
2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4  
3,John,9567843201,14-09-1987,6000,35000,12-12-2013,4**  
Enter the search type:  
1.By name  
2.By birth date  
3.By rating  
**1**  
Enter the name of the customer to be searched:  
**John**  
Id    Name            Mobile Number   Date of Birth   Average spent amount Total amount    Date Enrolled   Rating  
1     John            9876543210      12-12-1990      5000.0               25000.0         12-12-2012      3.0  
3     John            9567843201      14-09-1987      6000.0               35000.0         12-12-2013      4.0  
  
**Sample INPUT & OUTPUT 2:**  
  
Enter the number of customers:  
**3  
1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3  
2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4  
3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4**  
Enter the search type:  
1.By name  
2.By birth date  
3.By rating  
**3**  
Enter the rating of the customer to be searched:  
**4**  
Id    Name            Mobile Number   Date of Birth   Average spent amount Total amount    Date Enrolled   Rating  
2     James           9876543201      12-12-1991      6000.0               35000.0         12-12-2013      4.0  
3     Parker          9567843201      14-09-1987      6000.0               35000.0         12-12-2013      4.0  
  
**Sample INPUT & OUTPUT 3:**  
  
Enter the number of customers:  
**3  
1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3  
2,James,9876543201,12-12-1990,6000,35000,12-12-2013,4  
3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4**  
Enter the search type:  
1.By name  
2.By birth date  
3.By rating  
**2**  
Enter the birth date of the customer to be searched:  
**12-12-1990**  
Id    Name            Mobile Number   Date of Birth   Average spent amount Total amount    Date Enrolled   Rating  
1     John            9876543210      12-12-1990      5000.0               25000.0         12-12-2012      3.0  
2     James           9876543201      12-12-1990      6000.0               35000.0         12-12-2013      4.0  
  
**Sample INPUT & OUTPUT 4:**  
  
Enter the number of customers:  
**3  
1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3  
2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4  
3,John,9567843201,14-09-1987,6000,35000,12-12-2013,4**  
Enter the search type:  
1.By name  
2.By birth date  
3.By rating  
**1**  
Enter the name of the customer to be searched:  
**Starc**  
No customers found with the given name  
  
**Sample INPUT & OUTPUT 5:**  
  
Enter the number of customers:  
**3  
1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3  
2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4  
3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4**  
Enter the search type:  
1.By name  
2.By birth date  
3.By rating  
**3**  
Enter the rating of the customer to be searched:  
**3.5**  
No customers found with the given rating  
  
**Sample INPUT & OUTPUT 6:**  
  
Enter the number of customers:  
**3  
1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3  
2,James,9876543201,12-12-1990,6000,35000,12-12-2013,4  
3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4**  
Enter the search type:  
1.By name  
2.By birth date  
3.By rating  
**2**  
Enter the birth date of the customer to be searched:  
**10-10-1998**  
No customers found with the given birth date