MRF tyres(---RETIRED---)

Grade settings: Maximum grade: 100

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Based on: MRF tyres(---RETIRED---)

Run: Yes Evaluate: Yes Automatic grade: Yes

MRF tyres are a well-known Tyre company across the city. They wanted to find and count the Order Ids based on the Tyre type. 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: TyreMain Class

Type (Class)	Attributes	Methods
TyreMain	private Map <string, String> tyreMap</string, 	Getter and setter methods for the attribute are included in the code skeleton.

Note: Here the **tyreMap**, holds the Key as orderld and Value as tyreType.

Requirement 1: Find the number of orderlds based on the given tyreType.

Type (Class)	Methods	Responsibilities
TyreMain	public int findCountOfOrderIdsBasedOnTheTyreType (Strin g tyreType)	This method accepts tyreType as an argument. If the tyreType matches the tyreType present in the Map, it must count the orderIds and return the same. Else return -1. Condition: tyreType i s a case-insensitive

Requirement 2: Filter the orderlds based on the tyreType.

Type (Class)	Methods	Responsibilities
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public List String find Order Ids Resed On The Type (String)	This method filters the orderIds and returns the list of order Ids that have the same tyreType.
	Condition: tyreType i s 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 records to be added

3

Enter the records (Order Id: Tyre Type)

ASHG8124:AllSeason

AJSH1626:Touring

JSHH1865:Stock

Enter the Tyre type to be searched

stock

The Order Ids based on stock are 1

Enter the Tyre type to identify the Order Ids

touring

Order Ids based on the touring are

AJSH1626

Sample Input/Output 2:

Enter number of records to be added

2

Enter the records (Order Id: Tyre Type)

SHJK1265:AllSeason

KSAH8172:Touring

Enter the Tyre type to be searched

stock

No Order Ids were found for stock

Enter the Tyre type to identify the Order Ids

touring

Order Ids based on the touring are

KSAH8172

Sample Input/Output 3:

Enter number of records to be added

2

Enter the records (Order Id: Tyre Type)

SHJK1265:AllSeason

KSAH8172:Touring

Enter the Tyre type to be searched

touring

The Order Ids based on touring are 1

Enter the Tyre type to identify the Order Ids

summer

No Order Ids were found for the summer

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  TyreMain.java ♥
                                     import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Map;
import java.util.Scanner;
           TyreMain.ja
                                                                                                                                                                                                                                                                                                                                   G
                                                                                                                                                                                                                                                                                                                                   <u>o</u>-
                                                  public Map<string, String> tyreMap=new Has
return tyreMap;
}
                                                   private Map<String,String> tyreMap=new HashMap<String,String>();
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                                                                                                                                                                                                                                                                                                                                   public void setTyreMap(Map<String, String> tyreMap) {
   this.tyreMap = tyreMap;
                                                   public int findCountOfOrderIdsBasedOnTheTyreType(string tyreType) {
   //Fill the code
   return 0;
}
                                                   public List<String> findOrderIdsBasedOnTheTyreType(String tyreType){
   //Fill the code
   return null;
                                                   public static void main(string args[]) {
    // You are provided with the main method as code template and it is excluded from evaluation
    TyreMain main-new TyreMain();
    ListsStrings list=new ArrayListsStrings();
    MapsString, Strings mapnew HashMapsString,String>();
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter number of records to be added");
    int n=sc.nextInt();
                                                                                                                                                                                                                                                                                                                                   (3)
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                                                                                                                                                                                                                                                                                                                                                          public List<String> findOrderIdsBasedOnTheTyreType(String tyreType){
   //Fill the code
   return null;
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}
public static void main(string args[]) {
    // You are provided with the main method as code template and it is excluded from evaluation
    TyreMain main-new TyreMain();
    List<string> list-new ArrayList<string>();
    MapsString, String mapnew HashMapsString,String>();
    Scanner sc-new Scanner(system.in);
    System.out.println("Enter number of records to be added");
    int n-sc.nexInt();
    System.out.println("Enter the regords (order ld: Tyre Type)");
    String [] recordDetails = now String[n];
    for(int i=0;1xn;1++) {
        recordDetails[i] = sc.next();
    }
}

                                                                                                                                                                                                                                                                                                                                                          •
                                                             main.setTyreMap(map);
}
                                                              System.out.println("Enter the Tyre type to be searched");
String searchType=sc.next();
                                                                                                                                                                                                                                                                                                                                                          (3)
                                                              int count=main.findCountOfOrderIdsBasedOnTheTyreType(searchType);
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                          main.setTyreMap(map);
}
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                                                                                                                                                                                                                          0
                                      System.out.println("Enter the Tyre type to be searched");
String searchType=sc.next();
                                                                                                                                                                                                                          0
                                       int count-main.findCountOfOrderIdsBasedOnTheTyreType(searchType);
if(count-a)
{
    System.out.println("The Order Ids based on "+searchType+" are "+count);
                                                                                                                                                                                                                          •
                                      System.out.println("The Order Ids based on "+searchType+" are ")
else
{
System.out.println("No Order Ids were found for "+searchType);
}
                                       }
System.out.println("Enter the Tyre type to identify the Order Ids");
String tyreType-sc.next();
                                       list=main.findOrderIdsBasedOnTheTyreType(tyreType);
                                       if(list.size()>=1) {
    System.out.println("Order_Ids=based on the="ttyreType+" are ");
    for(String s:list) {
        System.out.println(s);
    }
}
                                        } else System.out.println("No Order Ids were found for the "+tyreType);
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