**Set - Player List Index Builder**

IPL has given announcement regarding the schedule of IPL Season for the year 2017.The teams wished to furnish their team detail to BCCI with the player list.   
  
Write a Java program to get all player information from the user and prompt whether the user wants to continue or not.   
Player information consists of player name and skill. If the player with the same name exists then display the message **"Player <Name> already exist"**   
Collect these details and store it in a **HashSet** and use **IndexBuilder** class to generate the index once all the players are provided by the user. Display the index report based on number of players in each character in alphabetical order.   
  
  
Create a main class **"Main.java"**   
Create **Player** class with below attributes,   
name - String   
skill - String   
Include a constructor for Player class with arguments name and skill   
Create **Index** class with below attributes,   
ch - Character   
count - Integer   
Override **equals** and **hashCode** methods in Player class to check for duplicate Player objects. (Players having the same name)   
Include a constructor for Index class with arguments ch and count.   
Include appropiate getter and setter for the Index class   
Read the player information in the Main class and call the **buildIndex**() and **displayIndex**() to built the index and display the index correspondingly.

**IndexBuilder class specification**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Scope** | **Attribute/Method** | **Type/Return Type** | **Name** | **Details** |
| public | Method | TreeSet<Index> | buildIndex(HashSet<Player>) | Build the index based on the player list passed in the argument. The index is stored in a TreeSet to maintain the order |
| private | Method | Index | findIndex(TreeSet<Index>,char ch) | Find the Index object in the treeset  corresponding to the character passed in the second argument. Return the Index object if its found otherwise return null |
| public | Method | void | displayIndex(TreeSet<Index>) | Display the index using iterator. Print the title as "Player Index" and followed by the character and corresponding count seperated by a tab "\t" |

**Note:**   
Display the report Player and Index seperated by following statement   
**To print strings:**   
System.out.println(String.format("%-14s%-15s","Player", "Index"));   
**To print values:**   
System.out.println(String.format("%-15s%-15d",playerName, index));   
**Input and Output Format:**   
Refer sample input and output for formatting specifications.   
  
**Sample Input and Output:**   
  
Enter Player Name:   
**Virat Kohli**   
Enter Skill:   
**Batsman**   
Do you want to continue(yes/no):   
**yes**   
Enter Player Name:   
**MS Dhoni**   
Enter Skill:   
**All Rounder**   
Do you want to continue(yes/no):   
**yes**   
Enter Player Name:   
**Virat Kohli**   
Enter Skill:   
**Batsman**   
Player Virat Kohli already exist   
Do you want to continue(yes/no):   
**yes**   
Enter Player Name:   
**Ravichandran Ashwin**   
Enter Skill:   
**Bowler**   
Do you want to continue(yes/no):   
**no**   
Player        Index             
M              1                 
R              1                 
V              1