1. **Comparator - Player List Based on Name and Skill**

Write a Java program to get all player details from the user and display a player list based on the skill and name.  Display a menu to select the skill of the player as shown in the sample input and output.  
Player list should be in such a way that All Rounders should be listed first, then the batsmen and then the bowlers should be displayed.Also the players should be listed in alphabetical order in each skill category.  
  
  
Create Player class with below attributes,  
name - String  
skill - String  
Add appropriate getter and setter methods for Player class  
Create constructor for Player class with arguments name and skill.  
Create PlayerComparator class implementing Comparator and implementing the below method,  
public int compare(Player player1, Player player2);  
The compare method compares the two player object based on the skill and name. This method retruns a negative integer, zero, or a positive integer as the first argument is less than, equal to, or greater than the second.

Create a main class "Main.java"

Read all the inputs in the Main class and store the list of players in ArrayList. Use Collections.sort() method to sort the list and pass the custom comparator.  
  
  
Input and Output Format:  
First input corresponds to the number of players and followed by the details of the players.  
Refer sample input and output for formatting specifications.  
  
[All text in bold corresponds to input and the rest corresponds to output]  
Sample Input/Output :  
Please provide the number of players to be registered  
3  
Please enter player name  
Virat Kohli  
Please select the skill of the player  
1.All Rounder  
2.Batsman  
3.Bowler  
2  
Please enter player name  
MS Dhoni  
Please select the skill of the player  
1.All Rounder  
2.Batsman  
3.Bowler  
1  
Please enter player name  
Ashwin  
Please select the skill of the player  
1.All Rounder  
2.Batsman  
3.Bowler  
3  
Player Details  
Player : Ashwin Skill  : All Rounder  
Player : Virat Kohli Skill  : Batsman  
Player : MS Dhoni Skill  : Bowler

2.**Comparator - Team name and Number of matches**

Write a Java program to get the team name and number of matches played by the team from the user and display a report with team name and number of matches sorted based on the number of batches in ascending order. Use **Collection.sort()** method to perform the sorting in your main class. Send the Comparator object as second argument to the sort method to use this comparator for sorting.  
  
  
Create **Team** class with below attributes,  
name - String  
numberOfMatches - Long  
Include a constructor accepting Team name and number of matches as arguments  
Add appropriate getter and setter methods for Team class  
  
Create **TeamComparator** implementing Comparator interface  
Implement compare method to compare two team objects based on their number of matches played.

Create a main class "**TeamMain.java**"

**Input and Output Format:**  
First input corresponds to the number of teams and followed by each team information.  
Refer sample input and output for formatting specifications.  
  
**[All text in bold corresponds to input and the rest corresponds to output]  
Sample Input/Output :**  
Enter number of teams:  
**3**  
Enter team 1 detail  
Enter Name  
**Chennai super Kings**  
Enter number of matches  
**132**  
Enter team 2 detail  
Enter Name  
**Royal Challengers Bangalore**  
Enter number of matches  
**139**  
Enter team 3 detail  
Enter Name  
**Delhi Capitals**  
Enter number of matches  
**131**  
Team list after sort by number of matches  
Delhi Capitals – 131  
Chennai super Kings – 132  
Royal Challengers Bangalore -139