

IT 109 Project - NBA Statistics Tracker

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Project Description:

This project aims to display a statistics application that takes input from NBA games and can average these stats for the NBA regular season. This application will allow the averages of NBA players from 2-5 games to be tracked within an application through dictionaries and mathematics.

Specifications of project:

Users will be given a menu to choose whether to view a text file or make their own dictionary file. When the user inputs 'g' a prompt for the number of games will appear for user input, users will then be prompted with the input for the player's name. Then prompt for user input of points, assists, rebounds, blocks, and turnovers. If the user inputs 'B' a prompt asks for 2 names of two teams. Upon completion, the user is prompted for a point total of teams. Then prompt the user for the top scorer along with their points scored, assists, and rebounds if the user inputs 's', a prompt asks for the wins and losses of multiple teams to create a standings sheet ranking the teams from best to worst. If the user inputs 'e', it will end the program.

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How many games (2-5)? 3

Game 1:
Enter points: 34

Game 2:
Enter points: 21

Game 3:
Enter points: 2

Player Stats per Game:
Game 1: Points = 34
Game 2: Points = 21
Game 3: Points = 2

Summary:
Games Played: 3
Total Points: 57
Average Points per Game: 19.00
PS C:\Users\kragi\OneDrive - George Mason University - 0365 Production\Desktop\IT109_002Fall2024> |
```

Please enter [g] for Games Stats, [s] for Standings, [b] for Boxscore, or [e] to Exit: s
Welcome to the Team Standings Creator!

Enter record for Team 1:
Team Name (or type 'done' to finish): Warriors
Enter number of wins for Warriors: 45
Enter number of losses for Warriors: 3

Enter record for Team 2:
Team Name (or type 'done' to finish): Cavs
Enter number of wins for Cavs: 33
Enter number of losses for Cavs: 8

Enter record for Team 3:
Team Name (or type 'done' to finish): done

NBA-Style Team Standings

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Rank	Team	Wins	Losses

1	Warriors	45	3
2	Cavs	33	8
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NBA Stats Tracker Main Menu

[g]Games Stats
[s]Standings
[b]Boxscore
[e]Exit

How many games (2-5)? 4

Game 1:
Enter rebounds: 7

Game 2:
Enter rebounds: 8

Game 3:
Enter rebounds: 1

Game 4:
Enter rebounds: 11

Player Stats per Game:

Game 1: Rebounds = 7
Game 2: Rebounds = 8
Game 3: Rebounds = 1
Game 4: Rebounds = 11

Summary:
Games Played: 4
Total Rebounds: 27
Average Rebounds per Game: 6.75