

Tennis Ranking System Usage Guide

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June 5, 2024

1 Introduction

The **Tennis Ranking System** is a C++ project designed to manage and update tennis player rankings based on their tournament performances. This guide provides instructions on how to use the system's functionalities.

2 Main Menu

When you run the code, you are presented with the following menu options:

1. **See Rankings**
2. **See Player Stats**
3. **Enter Tournament Results**
4. **Add a New Player**
5. **Delete a Player**

3 Functionalities

3.1 See Rankings

Selecting this option will display the current rankings of all players. The rankings are stored in the `rankings.txt` file, which is automatically updated based on each player's points.

3.2 See Player Stats

Selecting this option will prompt you to enter a player's name. The system will then display the player's statistics, which are stored in a file named `surname_name.txt`. This file contains the player's:

- Name

- Country
- Age
- Points
- Best result in all tournament types

3.3 Enter Tournament Results

This option allows you to enter the results of a tournament. You will be prompted to choose from three tournament types:

- WTA250
- WTA500
- WTA1000

After selecting the tournament type, you will need to enter the names of the participating players. The system will then create a draw randomly. You will be instructed to enter the winner of each match. Players receive points based on the tournament type and their best results will be updated accordingly:

- R16
- R8
- R4
- R2

If a player wins a tournament, their result changes to a 1. If a player wins multiple tournaments at a level, the number of tournaments won is recorded.

3.4 Add a New Player

Selecting this option will prompt you to enter the details of a new player. A new file with the player's name will be created in the format `surname_name.txt`, containing their:

- Name
- Country
- Age
- Initial Points
- Best results (initially R16)

The player's name will also be added to the `rankings.txt` file.

3.5 Delete a Player

This option will prompt you to enter the name of the player you wish to delete. The player's file (`surname_name.txt`) will be deleted, and their name will be removed from the `rankings.txt` file.

4 File Management

4.1 Player Files

Each player has a file named `surname_name.txt` that stores their statistics. Ensure that the file is correctly named and formatted to maintain data integrity.

4.2 Rankings File

The `rankings.txt` file maintains the list of players. This file is automatically updated whenever tournament results are entered or players are added/deleted.

5 Conclusion

This guide provides an overview of how to use the Tennis Ranking System. Follow the instructions for each menu option to manage and update player rankings effectively. For any further assistance, please contact the developers.