

Strings in C# Part 2

In this section, we will explore escape sequences and raw strings in C#.

Escape Sequences

Escape sequences are used to represent special characters within string literals. They are prefixed with a backslash (\). Here are some common escape sequences:

- \n : Newline
- \t : Tab
- \\ : Backslash
- \" : Double quote
- \' : Single quote

Raw Strings

Raw Strings allow you to create string literals without needing to escape special characters. In C#, raw strings are enclosed in triple double quotes ("""). This is particularly useful for strings that contain many special characters or span multiple lines.

Example of a raw string:

```
string rawString = """
    This is a raw string.
    It can span multiple lines
    and contain "special characters" without escaping.
    """;
```

Exercises

The amount of 🌶️ determines how hard the exercises are.

1. Escape Sequences 🌶️ a. Create a string that contains a newline and a tab character. b. Create a string that includes a quote: She said, "Hello!". c. Create a string that represents a file path: C:UsersNameDocuments.
2. Raw Strings 🌶️ a. Create a raw string that spans multiple lines of text. b. Create a raw string that represents a JSON object. c. Create a raw string that contains HTML code.
3. Given the following input: 🌶️🌶️🌶️🌶️

```
John,Doe,30,john.doe@example.com,New York
Jane,Smith,25,jane.smith@example.com,Los Angeles
Michael,Brown,40,michael.brown@example.com,Chicago
Emily,Davis,35,emily.davis@example.com,Houston
David,Wilson,28,david.wilson@example.com,Phoenix
```

- a. Read that input and find the oldest person and print all data of that person like the following:

The oldest person is Homer Simpson, 48 years old from Springfield

- b. Calculate the average age
- c. Find the person with the shortest fullname