CS 220: Introduction to Parallel Computing

Strings Review & Lab

Lecture 6

Today's Agenda

- Superbowl Predictions

- Strings Review

- Lab: Wrapping up HW1

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- **Superbowl Predictions**

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HW0: Superbowl Votes

- Patriots: 10

- Eagles: 4

- Tom Brady: 1

- Michael Jordan: 1

- Chicken Nuggets: 1

HW0: Activities

- Basketball

- Shopping

- Snowboarding

- Photography

- Fortnite (game)

- Ultimate Frisbee

- Gymnastics

- Hiking

- Badminton

- Running

- Hockey

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Recall: C Strings

- C strings are represented as arrays:

"HELLO!" ⟶ | H | E | L | L | O | ! | \0 |

- The string contains 6 characters, but the array has 7

- The \0 is the **NUL** byte, a control character
    - Used to mark the end of a string
    - What happens if we move NUL around?

Accessing Array Elements

- In HW1, we can prompt a user for a float with scanf:

```
scanf("%f", &numbers[i]);
```

- Reading a string is similar:

```
char name[100];

scanf("%s", name);
```

- Why don't I need an & here?

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HW1 Tips

- Check for valid inputs in `main`, update `read_array` and `calc_stats`

- Your implementation of `read_array` will look a lot like `print_array`

- In `calc_stats`, you'll use the pointers to "return" multiple values back up to the main function