Plan for Today

- We are back!
- I hope midterm went great!
- Strings + fStrings
- Files
- Dictionaries

Strings recap

- creating
- looping

String Functions

- `len(str)`
- `str.strip()`
- `str.find()`
- `str.islower()`
- `str.upper()`
- `str.split(..)`

String quirks

- They are immutable!
- Slicing!

Building strings

- Use regular addition

- Use cool fstrings
  - syntax: s = f"something* {var}* "

Any Questions :)

Files!

- `Syntax: for line in open(filename)`
- `with open(filename) as f:`
    - `for line in f:`
- `Each line in the file is a string!`

Dictionaries

- Created with {} or dict()
- Stores key-value pairs
- Can be nested!

Capstone Problem

You are given a file which is organized in this form:

-- Metadata about file

-- Name of shop: location

-- Aisle name: item

-- Name of shop: location

-- Aisle name: item

...

Capstone Problem

Organize this file into a nested dictionary that looks like:

```
{shop: {aisle: [item1, ...]}, ...}
```

Sub Problem

Print out the top five aisles in every store.