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Assignment 8

Key Takeaways

- Programming is problem solving.
- Bugs aren't failures, they're invitations to learn.
- Debugging is detective work — trace it, test it, trust your logic.

Concepts I'll Always Remember

- **Variables** = named boxes that hold data.
- **Functions** = reusable chunks of logic.
- **Lists & Dictionaries** = organize and look up data easily.
- **Loops** = automate repetitive work.
- **Conditionals** = make programs think.

Code Snippets I Keep Coming Back To

Swapping two variables

```
a, b = b, a
```

Check for duplicate letters

```
len(set(word)) != len(word)
```

Reverse sort by custom key

```
sorted(lst, key=lambda x: (-len(x), x))
```

Memory Moment

Spending 20 minutes realizing I forgot a colon