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Syntax Errors and How to Avoid Them

Syntax errors are • Errors caught by a compiler a • (as errors or warnings).

Easy to avoid and fix: • Turn on all warnings (-Wall).

- Fix all warnings and errors...
- Fix all warnings and errors.
- $\circ \dots$ but NOT by guessing!

ECE 220: Computer Systems & Programming

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Summary of Techniques
1. Use code reading (and/or pair programming).
2. Avoid making assumptions.
3. Document assumptions.
4. Assert requirements.
5. Avoid overloading meaning.
6. Test corner cases.
7. Walk through all paths in debugger.
8. Use regression tests.