COEN 175

Phase 2 - Week 2

TAs

- Chris Desiniotis: cdesiniotis@scu.edu
  - Office Hours: Friday 12 - 2 pm
- Antonio Gigliotti: agigliotti@scu.edu
  - Office Hours: Thursday 11 - 1 pm

Extra Help/Tutoring

- Tau Beta Pi Tutoring
- Link to Tutoring schedule
  - https://sites.google.com/scu.edu/scutaubetapi/tutoring?authuser=1&pli=1

Phase 2 - Syntax Analysis

1. Finish and test expression
2. Statement
   a. Write *declarations()* and *statements()* as empty functions for now
3. Declarations
4. Statements
5. Function or Global (given in class)
6. Test thoroughly

Left Factoring

- Left factor the following grammar:

  $declarator \rightarrow pointers\ \mathbf{id}\ |\ pointers\ \mathbf{id}\ [\ \mathbf{num}\ ]$

- After left factoring, the grammar becomes:

  $declarator \rightarrow pointers\ \mathbf{id}\ declarator'$
  $declarator' \rightarrow [\ \mathbf{num}\ ]\ |\ \epsilon$

Common Mistakes

- Don't forget to test every operator!
- "List of things" (global-declarator-list, declarator list, ...)
    - Example:
        - int foo(), bar, z[10];
    - Test different combinations for these lists!