CS480
Translators
LR(1) vs. LALR(1) Parsing/Test Review
Chap. 4
Test 2 Review

- Difference between Top-Down and Bottom-Up Parsing
  - Derivation vs. Reduction
- Transforming Grammars
  - Left Recursion
  - Left Factor
- Determine if grammar is LL(1)
  - Calculate First and Follow
  - Build LL(1) Parse Table
- Determine if grammar is LR(0)
  - Build LR(0) Parse Table
- Determine if grammar is SLR(1)
  - Build SLR(1) Parse Table
- Determine if grammar is LR(1)
  - Build LR(1) Parse Table
Quiz #8 Answers...

• Determine if the Grammar is SLR(1) or LR(1)
  S→ T else F;
  T→ E
  T→ i;
  F→ E
  E→ E+i
  E→ i

• Construct a parse table for the grammar
• Could you reduce LR(1) table to LALR(1)?