

**All students** should read through to §4.5.4 of the textbook in preparation **for this assignment** and the next lecture.

Distribute the following questions across the members of your group. You will share your solutions (and most importantly the *method* of your solutions) during the next lecture period. Divide up the questions so that **each** question has at least two solutions from different group members.

For **questions 1, 3, and 5** calculate only the **First** sets for the grammars specified.

1. Page 140, question 9
2. Page 141, question 16
3. Page 140, question 11
4. Questions 13–14 on page 141 (part a clarification: coming up with an example grammar for a small  $2 \leq n \leq 3$  is sufficient).
5. Page 140, question 10