

Homework of Chapter 5

5.8(a,b,c)

5.12

- Deadline: 4.10(Friday)
- The homework answers should be written in **English**.

Chapter 5 Bottom-Up Parsing

5.8 Consider the following grammar

declaration \rightarrow type var-list

type \rightarrow int | float

var-list \rightarrow identifier, var-list | identifier

- Rewrite it in a form more suitable for bottom-up parsing.
- Construct the LR(0) DFA for the rewritten grammar.
- Construct the SLR(1) parsing table for the rewritten grammar.

5.12 Show the following grammar is LR(1) but not LALR(1):

$s \rightarrow a A d \mid b B d \mid a B e \mid b A e$

$A \rightarrow c$

$B \rightarrow c$