

6. Exercise sheet *Compiler Construction 2008*

Due to Wed., 18 June 2008, *before* the exercise course begins.

Exercise 6.1:

Show that the grammar

$$\begin{array}{lcl} S' & \rightarrow & S \\ S & \rightarrow & SA \mid A \\ A & \rightarrow & a \end{array}$$

is $SLR(1)$ but not $LL(1)$.

Exercise 6.2:

Consider the following grammar:

$$\begin{array}{lcl} S' & \rightarrow & S \\ S & \rightarrow & AS \mid b \\ A & \rightarrow & SA \mid a \end{array}$$

- Construct the $LR(0)$ sets.
- Identify the conflicts.
- Give all accepting runs for input $abab$.