Universitetet i Oslo
Institutt for Informatikk

PMA, PSE

Krogdahl, Møller-Pedersen, Steffen

INF 5110: Compiler construction

Handout 3

Handout 3: Top-down parsing

Issued: 23. 2. 2016

For reference, to follow the slides during the lecture, the handout includes some grammars we repeatedly used for illustration, especially for the LR-parsing principles and the construction of the NFA/DFA

$$
\begin{aligned}
E' &\rightarrow E \\
E &\rightarrow E + \textbf{number} \ | \ \textbf{number}
\end{aligned}
$$

Table 1: Simple grammar for addition

$$
\begin{aligned}
S' &\rightarrow S \\
S &\rightarrow (\,S\,)\,S \ | \ \epsilon
\end{aligned}
$$

Table 2: Grammar for parentheses

$$
A \ \rightarrow \ (\,A\,) \ | \ \boldsymbol{a}
$$

Table 3: Grammar for simplistic parentheses