

In Class Exercise – Parser Tables

Mon, Sep 14, 2015

1. For the following grammar, write a *rightmost* derivation for $\text{INT} + (\text{INT} + \text{INT}) \text{EOL}$. (Write N instead of INT and \$ instead of EOL to save time.)

$$\begin{aligned} \text{main} &\rightarrow \text{expr EOL} \\ \text{expr} &\rightarrow \text{expr} + \text{term} \\ \text{expr} &\rightarrow \text{term} \\ \text{term} &\rightarrow \text{INT} \\ \text{term} &\rightarrow (\text{expr}) \end{aligned}$$

2. Using the parser table on slide 38 (which should be on the screen), parse the token sequence $\text{INT} + (\text{INT} + \text{INT})$. (Write N instead of INT and \$ instead of EOL to save time.) You probably won't need all the space in the table.

Stack	Input	Action
	N+ (N+N) EOL	