

Notation $*$ = 0 or more**Producers**

$$\begin{aligned}
[Prog] &\rightarrow [Statement]^* \\
[Statement] &\rightarrow \begin{cases} \text{EXIT}([Expr]); \\ \text{set ID} = [Expr] \end{cases} \\
[Expr] &\rightarrow \begin{cases} [Term] \\ [BinaryExpr] \end{cases} \\
[BinaryExpr] &\rightarrow \begin{cases} [Expr] \times [Expr] & precedence = 1 \\ [Expr] \div [Expr] & precedence = 1 \\ [Expr] + [Expr] & precedence = 0 \\ [Expr] - [Expr] & precedence = 0 \end{cases} \\
[Term] &\rightarrow \begin{cases} \text{int_lit} \\ \text{ID} \end{cases}
\end{aligned}$$