

Assignment 3 Example:

Grammar Productions:

$P \rightarrow \{ A \{A\} \}$

$A \rightarrow \text{let ID} := E ;$

$E \rightarrow T \{ (+ \mid -) T \}$

$T \rightarrow F \{ (* \mid /) F \}$

$F \rightarrow \text{ID} \mid \text{INTLIT} \mid (E)$

First Token Set:

$\{ \{ \}$

$\{ \text{let} \}$

$\{ (, \text{ID}, \text{INTLIT} \}$

$\{ (, \text{ID}, \text{INTLIT} \}$

$\{ (, \text{ID}, \text{INTLIT} \}$

Error Conditions Detected:

Syntax error: display an appropriate error message and quit execution

Uninitialized Variable: display an appropriate error message and quit execution