

$$E \rightarrow TX$$

$$T \rightarrow (E) \mid \text{int } Y$$

$$X \rightarrow +E \mid \epsilon$$

$$Y \rightarrow *T \mid \epsilon$$

augmented grammar

$$0: S' \rightarrow E \$$$

$$1: E \rightarrow TX$$

$$2: T \rightarrow (E) \mid \text{int } Y$$

$$3: X \rightarrow +E \mid \epsilon$$

$$4: Y \rightarrow *T \mid \epsilon$$

$$\text{First}(S) \Rightarrow \{ (, \text{int} \}$$

$$\text{First}(E) \Rightarrow \{ (, \text{int} \}$$

$$\text{First}(TX) \Rightarrow \{ (, \text{int} \}$$

$$\text{First}(T) \Rightarrow \{ (, \text{int} \}$$

$$\text{First}((E)) \Rightarrow \{ (\}$$

$$\text{First}(\text{int } Y) \Rightarrow \{ \text{int} \}$$

$$\text{First}(X) \Rightarrow \{ +, \epsilon \}$$

$$\text{First}(+E) \Rightarrow \{ + \}$$

$$\text{First}(\epsilon) \Rightarrow \{ \epsilon \}$$

$$\text{First}(Y) \Rightarrow \{ *, \epsilon \}$$

$$\text{First}(*T) \Rightarrow \{ * \}$$

Φ

$$\text{Follow}(S) \Rightarrow \{ \}$$

$$\text{Follow}(E) \Rightarrow \{ \$,) \}$$

$$\text{Follow}(T) \Rightarrow \{ \$, +,) \}$$

$$\text{Follow}(X) \Rightarrow \{ \$,) \}$$

$$\text{Follow}(Y) \Rightarrow \{ +, \$,) \}$$

$$0: \text{First}^+(E \rightarrow TX) \Rightarrow \{ (, \text{int} \}$$

$$1: \text{First}^+(T \rightarrow (E)) \Rightarrow \{ (\}$$

$$2: \text{First}^+(T \rightarrow \text{int } Y) \Rightarrow \{ \text{int} \}$$

$$3: \text{First}^+(X \rightarrow +E) \Rightarrow \{ + \}$$

$$4: \text{First}^+(X \rightarrow \epsilon) \Rightarrow \{ \epsilon, \$,) \}$$

$$5: \text{First}^+(Y \rightarrow *T) \Rightarrow \{ * \}$$

$$6: \text{First}^+(Y \rightarrow \epsilon) \Rightarrow \{ +, \$,), \epsilon \}$$

	()	int	+	*	EOF
E	0	-	0	-	-	-
T	1	-	2	-	-	-
X	-	4	-	3	-	4
Y	-	6	-	6	5	6

Parsing Table