

$$\text{Follow}(\text{GOAL}) = \{ \$ \}$$

$$\text{Follow}(\text{CODE}) = \text{Follow}(\text{GOAL}) = \{ \$ \}$$

$$\begin{aligned} \text{Follow}(\text{DECL}) &= \text{first}(\text{CODE}) - \{ \epsilon \} \cup \text{Follow}(\text{STMT}) \cup \text{Follow}(\text{TYPE}) \\ &= \{ \text{vtype} \} \cup \{ \text{rbrace}, \text{return}, \text{for}, \text{while}, \text{if}, \text{vtype}, \text{id} \} \cup \{ \$ \} = \{ \text{vtype}, \text{rbrace}, \text{return}, \text{for}, \text{while}, \text{if}, \text{id}, \$ \} \end{aligned}$$

$$\text{Follow}(\text{ASSIGN}) = \text{first}(\text{semi}) \cup \text{first}(\text{rparen}) = \{ \text{semi}, \text{rparen} \}$$

$$\text{Follow}(\text{FDECL}) = \text{first}(\text{CODE}) - \{ \epsilon \} \cup \text{Follow}(\text{CODE}) = \{ \text{vtype} \} \cup \{ \$ \} = \{ \text{vtype}, \$ \}$$

$$\text{Follow}(\text{ARG}) = \text{first}(\text{rparen}) = \{ \text{rparen} \}$$

$$\text{Follow}(\text{MOREARGS}) = \text{Follow}(\text{ARG}) = \{ \text{rparen} \}$$

$$\begin{aligned} \text{Follow}(\text{BLOCK}) &= \text{first}(\text{rbrace}) \cup \text{first}(\text{RETURN}) - \{ \epsilon \} \\ &= \{ \text{rbrace} \} \cup \{ \text{return} \} = \{ \text{rbrace}, \text{return} \} \end{aligned}$$

$$\begin{aligned} \text{Follow}(\text{STMT}) &= \text{first}(\text{BLOCK}) - \{ \epsilon \} \cup \text{Follow}(\text{BLOCK}) \\ &= \{ \text{for}, \text{while}, \text{if}, \text{vtype}, \text{id} \} \cup \{ \text{rbrace}, \text{return} \} = \{ \text{brace}, \text{return}, \text{for}, \text{while}, \text{if}, \text{vtype}, \text{id} \} \end{aligned}$$

$$\begin{aligned} \text{Follow}(\text{ELSE}) &= \text{Follow}(\text{STMT}) \\ &= \{ \text{rbrace}, \text{return}, \text{for}, \text{while}, \text{if}, \text{vtype}, \text{id} \} \end{aligned}$$

$$\text{Follow}(\text{RHS}) = \text{Follow}(\text{ASSIGN}) = \{ \text{semi}, \text{rparen} \}$$

$$\begin{aligned} \text{Follow}(\text{EXPR}) &= \text{first}(\text{rparen}) \cup \text{Follow}(\text{RHS}) \\ &= \{ \text{rparen} \} \cup \{ \text{semi}, \text{rparen} \} = \{ \text{rparen}, \text{semi} \} \end{aligned}$$

$$\begin{aligned} \text{Follow}(\text{TERM}) &= \text{first}(\text{addsub}) \cup \text{Follow}(\text{EXPR}) \\ &= \{ \text{addsub} \} \cup \{ \text{semi}, \text{rparen} \} = \{ \text{addsub}, \text{semi}, \text{rparen} \} \end{aligned}$$

$$\begin{aligned} \text{Follow}(\text{FACTOR}) &= \text{first}(\text{comp}) \cup \text{first}(\text{multdiv}) \cup \text{first}(\text{semi}) \cup \text{Follow}(\text{TERM}) \cup \text{Follow}(\text{CONJ}) \\ &= \{ \text{comp} \} \cup \{ \text{multdiv} \} \cup \{ \text{semi} \} \cup \{ \text{addsub}, \text{semi}, \text{rparen} \} \cup \{ \text{semi}, \text{rparen} \} \\ &= \{ \text{comp}, \text{multdiv}, \text{addsub}, \text{semi}, \text{rparen} \} \end{aligned}$$

$$\text{Follow}(\text{CONJ}) = \text{first}(\text{rparen}) \cup \text{first}(\text{semi}) = \{ \text{semi}, \text{rparen} \}$$

$$\text{Follow}(\text{RETURN}) = \text{first}(\text{rbrace}) = \{ \text{rbrace} \}$$