

$$\begin{aligned}
 E &\rightarrow TE' \\
 E' &\rightarrow +TE' \mid \epsilon \quad E' \rightarrow +T \\
 T &\rightarrow TT' \\
 T' &\rightarrow *TT' \mid \epsilon \quad T' \rightarrow *T \\
 T &\rightarrow (E) \mid id
 \end{aligned}$$

| | First | Follow |
|----|---------------|--|
| E | {(, id} | { \$ } \cup {) } = { \$,) } |
| E' | {+, \epsilon} | Follow(E') = Follow(E) = { \$,) } |
| T | {(, id} | Follow(T) = First(E') \setminus \epsilon = {+} \cup Follow(T) = Follow(E') = {+, \$,) } |
| T' | {*, \epsilon} | Follow(T') = Follow(T) = {+, \$,) } |
| T | {(, id} | Follow(T) = First(T') \setminus \epsilon = {*} \cup Follow(T') = {*, +, \$,) } |

$$\begin{aligned}
 S &\rightarrow (A) \mid \epsilon \\
 A &\rightarrow TE \\
 E &\rightarrow \&TE \mid \epsilon \quad E \rightarrow \&T^A \\
 T &\rightarrow (A) \mid a \mid b \mid c
 \end{aligned}$$

| | First | Follow |
|---|----------------|---|
| S | {(, \epsilon} | { \$ } = { \$ } |
| A | {(, a, b, c} | {) } = {) } |
| E | {\&, \epsilon} | Follow(A) = {) } = {) } |
| T | {(, a, b, c} | First(E) = {\&} \cup Follow(E) = {) } = {\&,) } |

Computing Follow

- If A is start symbol, put $\$$ in $Follow(A)$
- Productions of the form $B \rightarrow \alpha A \beta$, $Follow(A) = First(\beta)$
- Productions of the form $B \rightarrow \alpha A$ or $B \rightarrow \alpha A \beta$ where $\beta \Rightarrow \epsilon$ result in $Follow(A) = Follow(B)$