

5. (1)

$$I_0 = \{S' \rightarrow .S, S \rightarrow .id = S, S \rightarrow .E, E \rightarrow .E + F, F \rightarrow .id, F \rightarrow .(S)\}$$

$$I_1 = \text{goto}(I_0, S) = \{S' \rightarrow S.$$

$$I_2 = \text{goto}(I_0, E) = \{S \rightarrow E., E \rightarrow E. + F\}$$

$$I_3 = \text{goto}(I_0, F) = \{E \rightarrow F.$$

$$I_4 = \text{goto}(I_0, id) = \{S \rightarrow id. = S, F \rightarrow id.\}$$

$$I_5 = \text{goto}(I_0, () = \{F \rightarrow (.S), S \rightarrow .id = S, S \rightarrow .E, E \rightarrow .E + F, E \rightarrow .F, F \rightarrow .id, F \rightarrow .(S)\}$$

$$I_6 = \text{goto}(I_2, +) = \{E \rightarrow E + .F, F \rightarrow .id, F \rightarrow .(S)\}$$

$$I_7 = \text{goto}(I_4, =) = \{S \rightarrow id = .S, S \rightarrow .id = S, S \rightarrow .E, E \rightarrow .E + F, E \rightarrow .F, F \rightarrow .id, F \rightarrow .(S)\}$$

$$I_8 = \text{goto}(I_5, S) = \{F \rightarrow (S).\}$$

$$I_9 = \text{goto}(I_5, E) = I_2$$

$$I_{10} = \text{goto}(I_5, F) = I_3$$

$$I_{11} = \text{goto}(I_5, id) = I_4$$

$$I_{12} = \text{goto}(I_5, () = I_5$$

$$I_{13} = \text{goto}(I_6, F) = \{E \rightarrow E + F\}$$

$$I_{14} = \text{goto}(I_6, id) = I_4$$

$$I_{15} = \text{goto}(I_6, () = I_5$$

$$I_{16} = \text{goto}(I_7, S) = \{S \rightarrow id = S\}$$

$$I_{17} = \text{goto}(I_7, E) = I_2$$

$$I_{18} = \text{goto}(I_7, F) = I_3$$

$$I_{19} = \text{goto}(I_7, id) = I_4$$

$$I_{20} = \text{goto}(I_7, () = I_5$$

$$I_{21} = \text{goto}(I_8, () = \{F \rightarrow (S).\}$$

(2) 构造 SLR 分析表