DFA TO CFG

V2. FOR EACH G2 OF DFA

RULE V2 -> a Vj. IF S(82, a) +8j.

RULE Vi > E IF Bi & F

MAKE VO START VARIABLE WHERE 8, 15 STATE.

$$\begin{array}{c} V_{1} \rightarrow 0 V_{2} \\ V_{1} \rightarrow 1 V_{4} \\ V_{2} \rightarrow 1 V_{3} \\ V_{2} \rightarrow 0 V_{3} \\ V_{3} \rightarrow 0 V_{2} \\ V_{3} \rightarrow 1 V_{4} \\ V_{4} \rightarrow 1 V_{5} \\ V_{4} \rightarrow 1 V_{7} \\ V_{5} \rightarrow 1 V_{7} \\ V_{7} \rightarrow 1 V_{7} \\ V_{8} \rightarrow 1 V_{8} \\ V_{8}$$

$$V_1 \rightarrow 0 V_2 | 1 V_4$$

$$V_2 \rightarrow 0 V_1 | 1 V_3 | \leftarrow$$

$$V_3 \rightarrow 0 V_4 | 1 V_2$$

$$V_4 \rightarrow 0 V_3 | 1 V_1$$