-Sipser p. 13

Strings: 01101

11

cat CS

$$\mathcal{E} = = ""$$

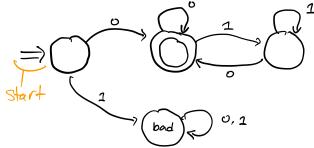
Languages:
$$\{0, 1\}^*$$
 $\{x \in \{0, 1\}^* \mid x \text{ starts and ends with } 0\}$

All strings over $Z = \{a, b, c\}$ that are palindromes

 $(\omega = \omega P)$
 $L(D)$

Sipser pp. 31-34

L = "strings over {0,1} that start and end in zero."



Double - checks: - start arrow - transitions from every state on every alphabet symbol.

Sipser p. 35

Def (DFA). A DFA is a 5-tuple with the following parts:

CDFA). A DFA is a

(G, Z, go, F, S)

Finite state set $S: Q \times S \longrightarrow Q$ S_1, S_2, S_1 state $S: Q \times S \longrightarrow Q$ S_2, S_1, S_2, S_2 S_1, S_2, S_2, S_3 S_2, S_2, S_3, S_4 S_1, S_2, S_3, S_4 S_2, S_2, S_3, S_4 S_2, S_2, S_2, S_3 S_2, S_2, S_3 S_2, S_2, S_3 S_2, S_2, S_3 S_3, S_2, S_3 S_4, S_2, S_3 S_2, S_3 S_2, S_3 S_3, S_4, S_4