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Solution: Consider the DFA  $D_1 = (Q; \Sigma; \delta; q_0; F)$  of  $L$ ; we construct the following DFA  $D_2 = (Q; \Sigma; \delta; q_0; F_0)$ , where a state  $q_i \in F_0$ , if and only if,  $\delta(q_i, a) \in F$ . It is clear that  $D_2$  accepts precisely those strings  $w$ , such that  $w \in L$ . In other words,  $D_2$  is the DFA accepting  $Q^*(L)$ , thereby establishing that  $Q^*(L)$  is regular. 2 5.

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Solution: An unambiguous grammar for  $L$  is  $G = (V, T, S, P)$ , where, (a)  $V = \{S\}$ . (b)  $T = \{a, b\}$ . (c)  $S = S$ . (d) The productions  $P$  are defined by:  $S \rightarrow aSa | bSb | \epsilon$ . In order to establish the unambiguous nature of  $G$ , we need to show that for every string  $w \in L(G)$ , there is precisely one leftmost derivation  $S \xrightarrow{*} w$ .

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