To construct DFA M from NFA N: $\{90,9,92\}$ Let N = $\{0\}$, Examples of strings accepted: Ca Eb Examples of strings rejected: C bc aaa

1= (0), E, E, g, g, F). Define

E (92)

 $M = (PQ, E, S, g', \{X \subseteq Q \mid X \cap F \neq \emptyset\})$

where $q' = \{q \in Q \mid q = q_0 \text{ or is accessible from } q_0 \text{ by spontaneous moves in } N \}$

state in DFA (labeled by a subset of states from NFA N)

 $\begin{cases} S'((X|X)) = \{q \in Q \mid q \in S((r,X)) \text{ for some } r \in X \text{ or by spontaneous moves in } N \} \\ Symbol to read \\ S'((\underline{\epsilon}q_0,q_23,C)) = S((q_0,C)) \cup S((q_2,C)) = \{q_1\} \end{cases}$

R



