

Let $A = (Q, q_0, \Delta, F)$ be a DFA accepting L .
 An accepting run of A must be of the form

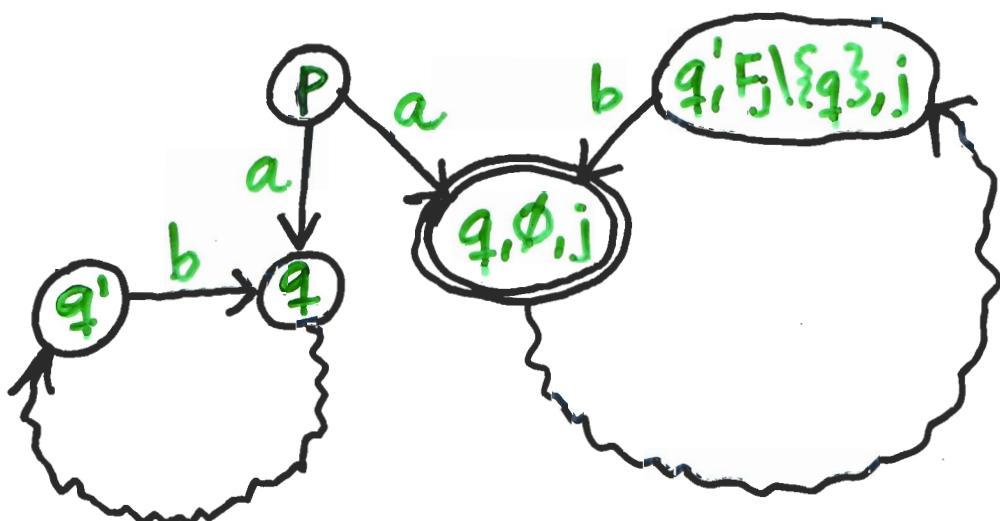
$w_0 w_1 w_2 w_3 \dots$

where $S(w_1) = S(w_2) = S(w_3) = \dots = F_j$, some $F_j \in F$.

Idea: "Guess" when F_j is entered,
 Make sure that we never leave F_j ,
 And that all states in F_j are visited.

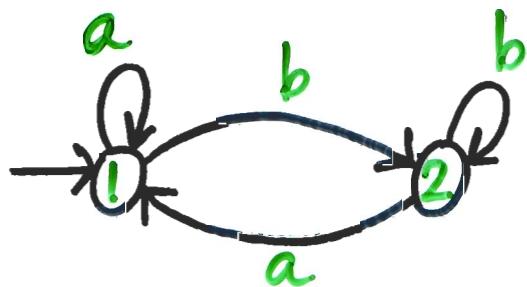
for each $q \in F_j$ add a new state (q, P, j) where
 $q \in F_j$ and $P \subseteq F_j$.

If A contains a transition $p \xrightarrow{a} q \in F_j$ then



$$S(w) = \{q \mid q \in w\}$$

From deterministic Muller to Büchi



with $F = \{\{1,2\}\}$

