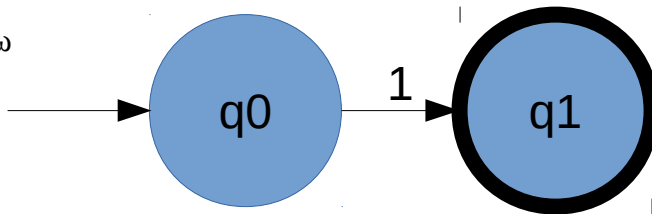
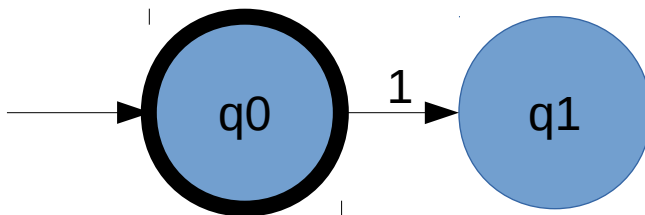


4.  
 $\{\omega: \omega=1\}$   
 $\{\omega': \omega' \neq 1\}$

For  $\omega$



For  $\omega'$  using DFA logic only accepts the empty string



The real inverse for  $\omega'$

