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An automaton can be represented by a 5-tuple  $(Q, \Sigma, \delta, q_0, F)$ , where  
-.  $Q$  is a finite set of states.  $\Sigma$  is a finite set of symbols, called the alphabet of the automaton.  $\delta$  is the transition function.  $q_0$  is the

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initial state from where any input is processed ( $q_0 \in Q$ ).  $F$  is a set of final state/states of  $Q$  ( $F \subseteq Q$ ).

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