

DFA:

DFA $M=(Q, \Sigma, \delta, Q_0, F)$ Where

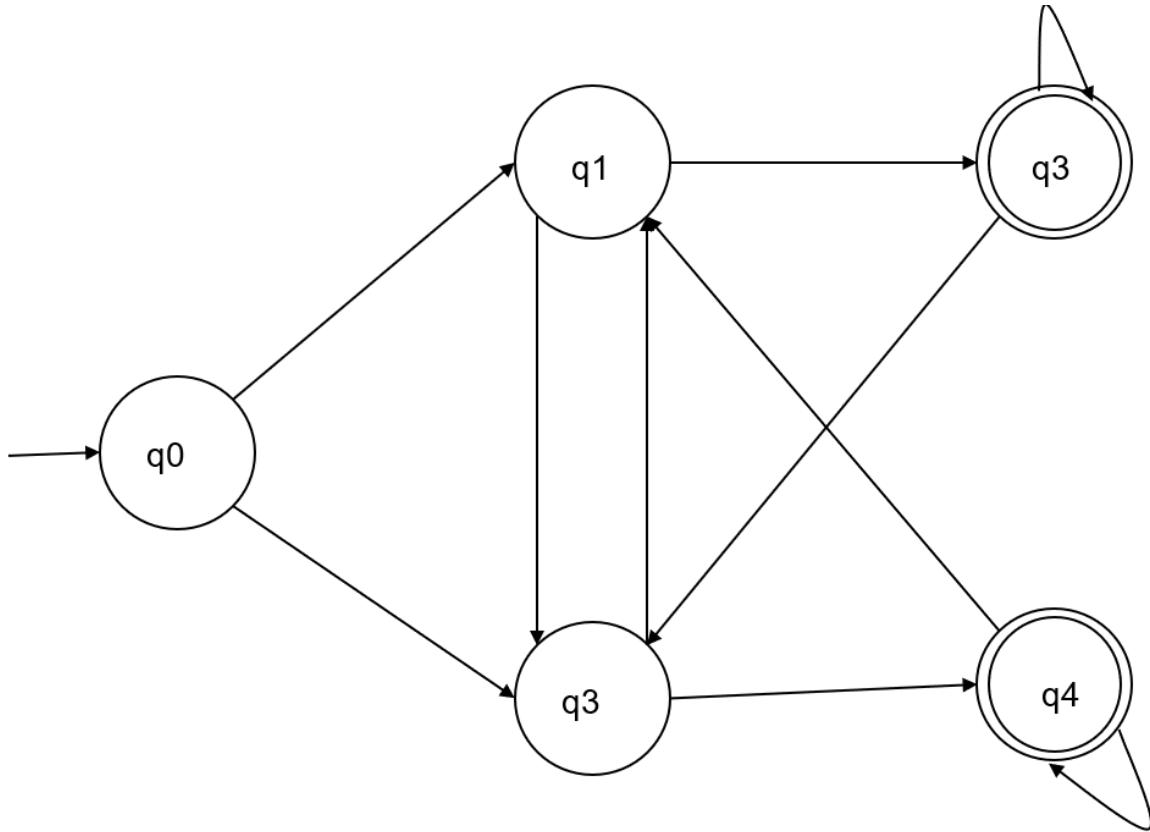
Q =Set of all states = $\{q_0, q_1, q_2, q_3, q_4\}$

Σ =Input Alphabet= $\{a, b\}$,

Start state is q_0

F =Set of all final States= $\{q_3, q_4\}$

And the transitions are defined in the transition diagram



OUTPUT:

INPUT	EXPECTED OUTPUT
abaa	String accepted
abb	String accepted
abaaba	String not accepted
abba	String not accepted
ababaa	String accepted