

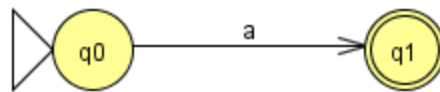
1.

- $\Sigma 1 \Sigma$
- $0\Sigma(\Sigma\Sigma)^* \cup 1\Sigma(\Sigma\Sigma)^*$
- $\epsilon \cup (00^*) \cup (00^*11^*) \cup (11^*) \cup (11^*00^*)$
- $(\Sigma\cup\epsilon)(\Sigma\cup\epsilon)(\Sigma\cup\epsilon)(\Sigma\cup\epsilon)$
- $(1 \cup 01 \cup 00(1 \cup 0))(0 \cup 1)^*$
- $(0(1 \cup 0))^*0$

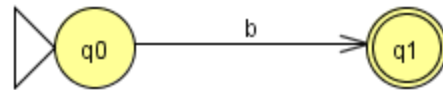
2.

a.

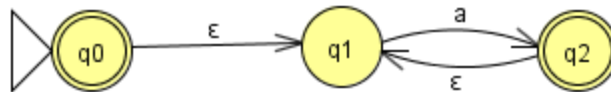
a:



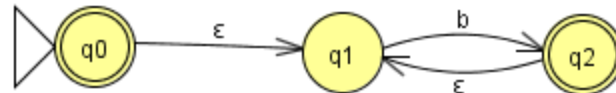
b:



a*:



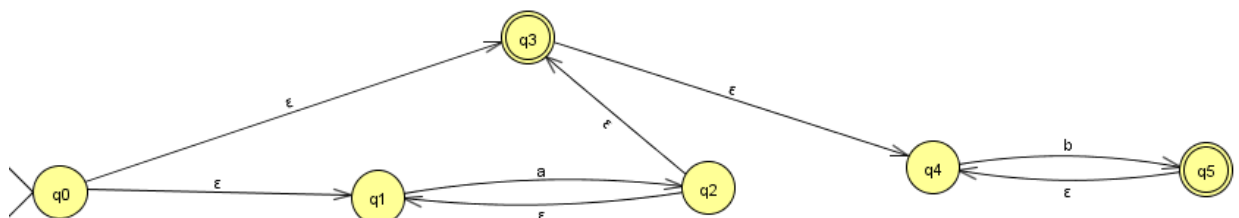
b*:



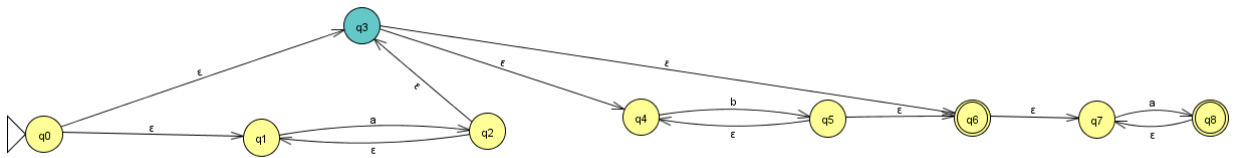
a+:



a*b*:

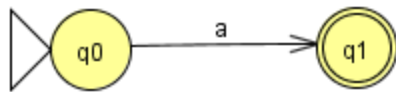


$a^*b^*a^+$:

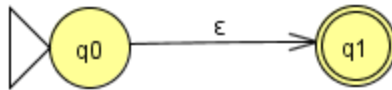


b.

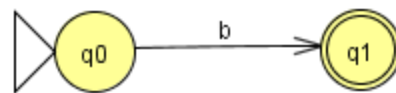
a:



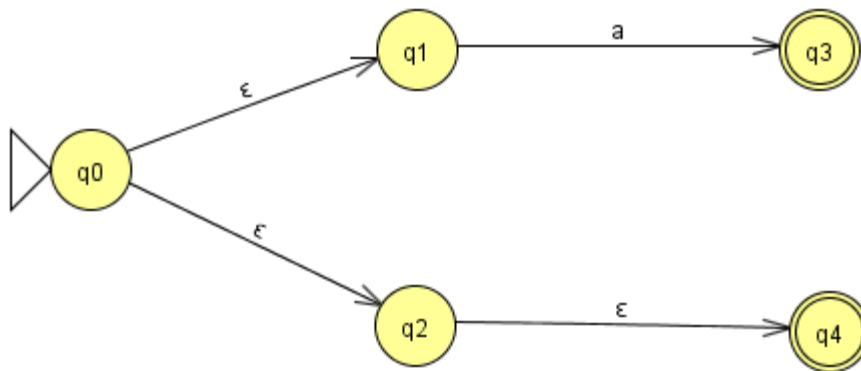
ϵ :



b:



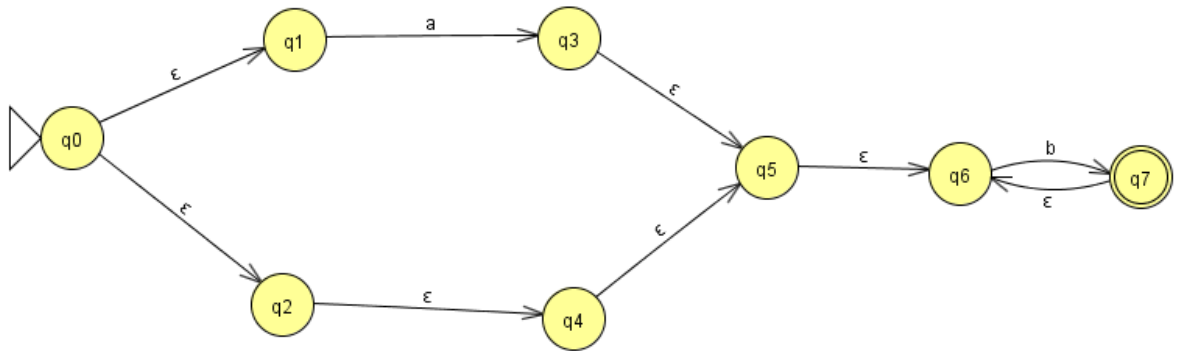
$(a \cup \epsilon)$:



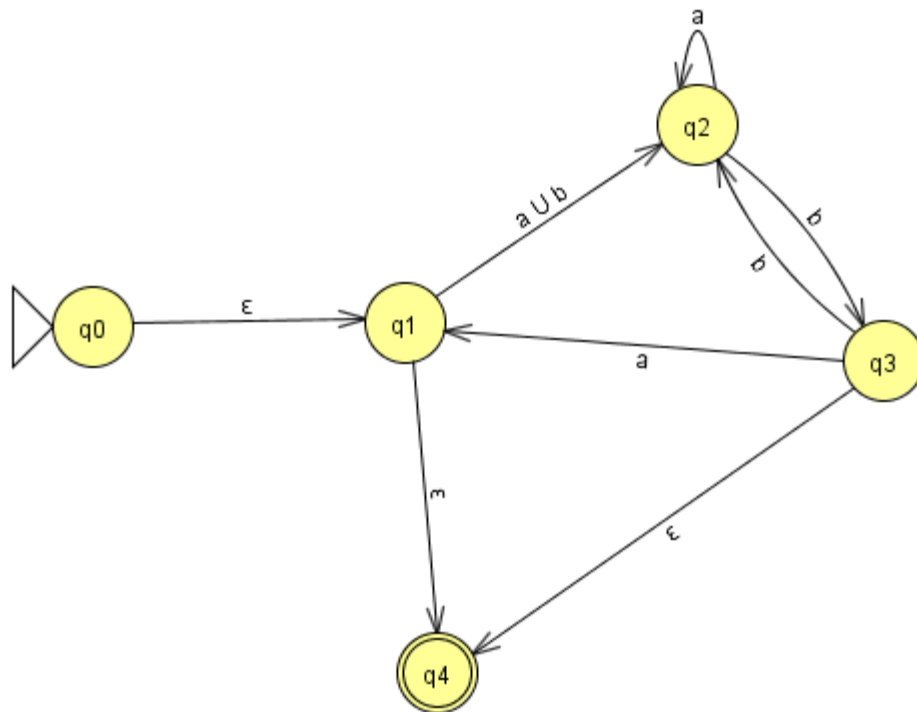
b^+ :



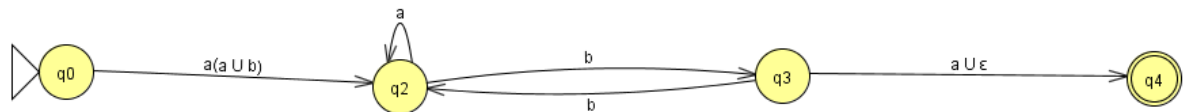
$(a \cup \epsilon)b^+$:



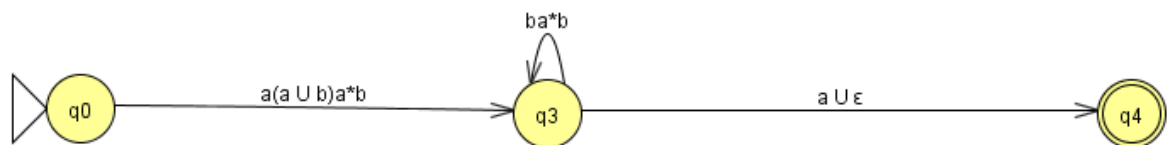
3.



Rip q_1 :



Rip q_2 :



Rip q3:

