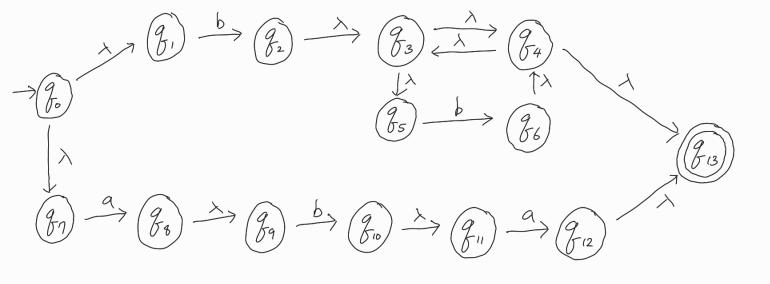
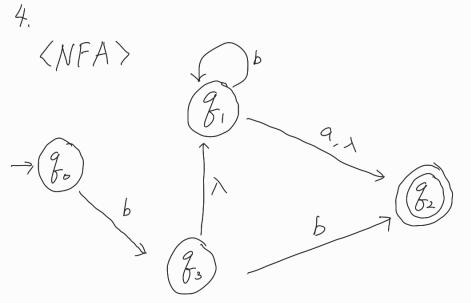


(aa)*abb





In the path of go-go-go-go, bb*a or bb* are accepted.

In the path of go-go-go, bb is accepted.

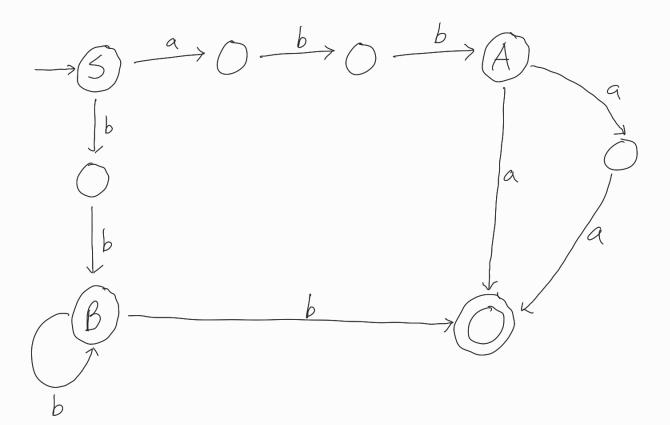
Regular expression of the language is bb*a+bb*+bb

$$bb^*a + bb^* = bb^*(a+\lambda)$$

$$bb^*(a+\lambda)+bb$$

$$5 \rightarrow abbA \mid bbB$$

 $A \rightarrow aa \mid a$
 $B \rightarrow bB \mid b$
 $5 \rightarrow abbA \text{ or } 5 \rightarrow bbB$
 $\Rightarrow A \rightarrow aa \text{ or } A \rightarrow a$
 $\Rightarrow B \rightarrow bB \text{ or } B \rightarrow bB$



6. A right-linear grammar for L((a+b)*)

We can construct a DFA for $\Sigma = \{a,b\}$ which accepts $L((a+b)^*)$.

 $\int a_{1}b \qquad 5 \rightarrow \lambda \quad \text{or} \quad 5 \rightarrow a5 \quad \text{or} \quad 5 \rightarrow b5$ $\Rightarrow 5 \rightarrow a5 \mid b5 \mid \lambda$

 $5 \rightarrow a5|b5|\lambda$