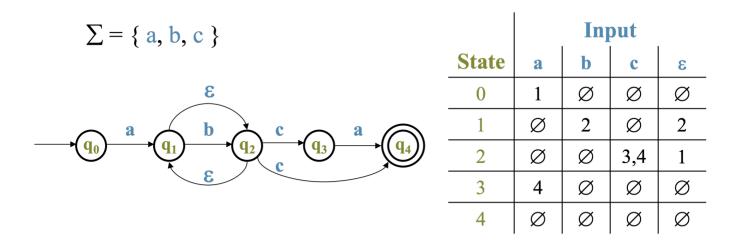
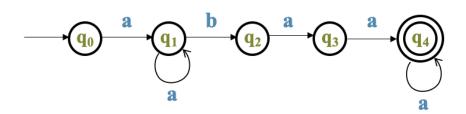
Finite State Machines (FSMs)

NAME:



1. What regular expression corresponds to the NFA above?

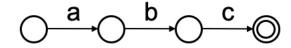
[2 pts] ANSWER: ab*ca?



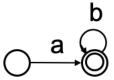
2. What regular expression corresponds to the NFA above?

[2 pts] ANSWER: a+baa+

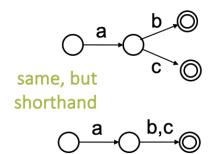
[2 pts] ANSWER: abc



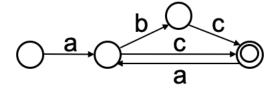
[2 pts] ANSWER: ab*



[2 pts] ANSWER: a(b|c)



[2 pts] ANSWER: (ab?c)+



Provide a NFA for the following:



 $S \rightarrow XX$

 $S \rightarrow yY$

 $Y \rightarrow yY$

Y **→** ε

 $X \rightarrow XX$

 $X \rightarrow \epsilon$

[3 pts] ANSWER:

