### Problem 1

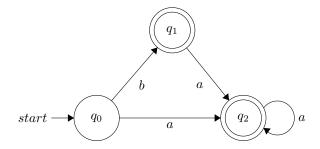
 $S \to bA$ 

 $S \to A$ 

 $A \to aA$ 

 $A \to \epsilon$ 

## Problem 2

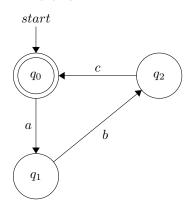


## Problem 3

 $S \to abcS$ 

 $S \to \epsilon$ 

## Problem 4



## Problem 5

 $S \to aA$ 

 $A \to aaA$ 

 $A \to \epsilon$ 

Assignment 13 Christopher Chapline

# Problem 6

