

Problem 1

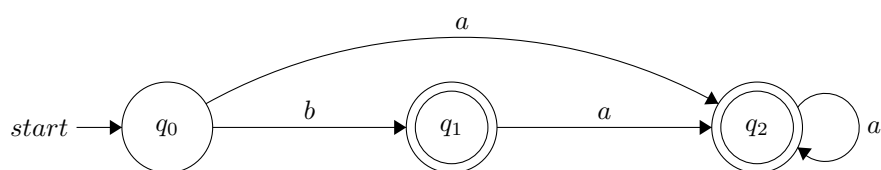
$$S \rightarrow bA$$

$$S \rightarrow A$$

$$A \rightarrow aA$$

$$A \rightarrow \epsilon$$

Problem 2



Problem 3

$$S \rightarrow A$$

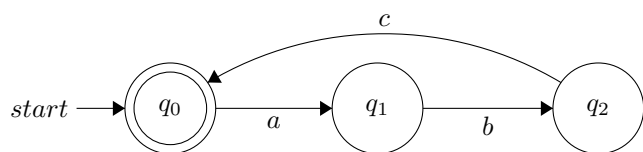
$$S \rightarrow \epsilon$$

$$A \rightarrow aB$$

$$B \rightarrow bC$$

$$C \rightarrow cS$$

Problem 4



Problem 5

$$S \rightarrow aA$$

$$A \rightarrow aB$$

$$B \rightarrow aS$$

$$B \rightarrow a$$

Problem 6

