Automata Theory: Assignment 5

Due date: October 11 (Thursday)

Problem 1 (4 points)
Draw an NFA that accepts the language defined by the following grammar:

$$S \to aaA \mid \lambda$$
$$A \to bbB \mid ccC$$
$$B \to bB \mid bC$$
$$C \to cC \mid S$$

Problem 2 (6 points)
Give a right-linear grammar and left-linear grammar for the following language:

$$\{b^n a b^m a : \ n \geq 2, m \geq 2\}$$