Automata Theory: Assignment 5

Due date: February 21 (Thursday)

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

$S \rightarrow aaA \mid bb$
$A \rightarrow aaA \mid bbB$
$B \rightarrow bS \mid bC$
$C \rightarrow S \mid \lambda$

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

$\{(ab)^n(bb)^m a : \ n \geq 1, m \geq 2\}$