

Homework #7 due December 27, 2022 before recitation

Question 1

A CFG is called *right linear* if **all** productions are of the form $A \rightarrow a B$ or $A \rightarrow e$ and called *left linear* if **all** productions are of the form $A \rightarrow B a$ or $A \rightarrow e$ where $A, B \in V$ and $a \in T$ and e is the empty string.

Show that both *right linear* and *left linear* grammars generate *regular languages*. Specify finite state machines corresponding respectively to right and left linear grammars.

Main Text: Exercise 7.1.3, 7.1.4, 7.2.1 (b), (c), 7.4.3(b), (c)