

Theory of Computation, CSCI 438 spring 2022
Chomsky Normal Form, pg. 108-111, Feb. 18

1. Convert the following grammar to Chomsky Normal Form.
 $S \rightarrow aSb \mid \varepsilon$

2. Exercise 2.14 Convert the following CFG into an equivalent CFG in Chomsky normal form, using the procedure given in Theorem 2.9.

$$\begin{aligned} A &\rightarrow BAB \mid B \mid \varepsilon \\ B &\rightarrow 00 \mid \varepsilon \end{aligned}$$