

Theory of Computation

Exercise 5:

(Regular Grammar)

1. Give the right-linear grammar for the language
 $L = \{1^n 0^m : n \geq 1 \text{ and } m \geq 2\}.$

2. Give the left-linear grammar for the language L in problem 1.

*3. Draw NFA for the following grammar G.

$$\begin{aligned} G: A &\rightarrow xyB, \\ B &\rightarrow yxC, \\ C &\rightarrow xB \mid yy \end{aligned}$$

