Theory of Computation

Exercise 5:

(Regular Grammar) → เลือกเอาซ้าย หรือ ขวา only

1. Give the right-linear grammar for the language

$$L = \{1^n 0^m : n \geq 1 \; and \; m \geq 2\}.$$

100
1100
11000

$S \rightarrow 1A$

$A \rightarrow 1A \mid 00B$

$B \rightarrow 0B \mid \lambda$

แจกแจง

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

$L = \{1^n 0^m ; n \geq 1 \text{ and } m \geq 2\}$

$S \to A00$

$A \to A0 \mid B1$

$B \to B1 \mid \lambda$

(Submit 4)

*3. Draw NFA for the following grammar G.

$G: A \rightarrow xyB,$

$B \rightarrow yxC,$

$C \rightarrow xB \mid yy$