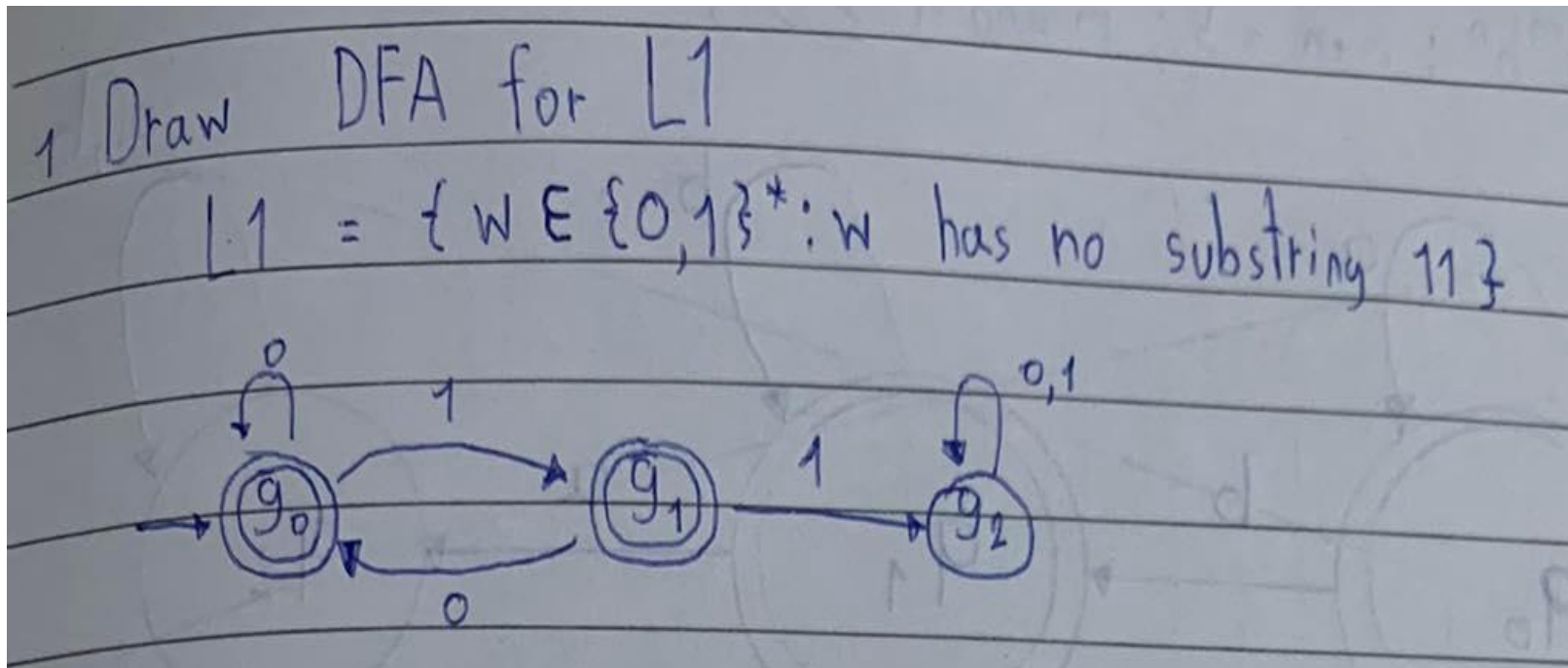# Theory of Computation

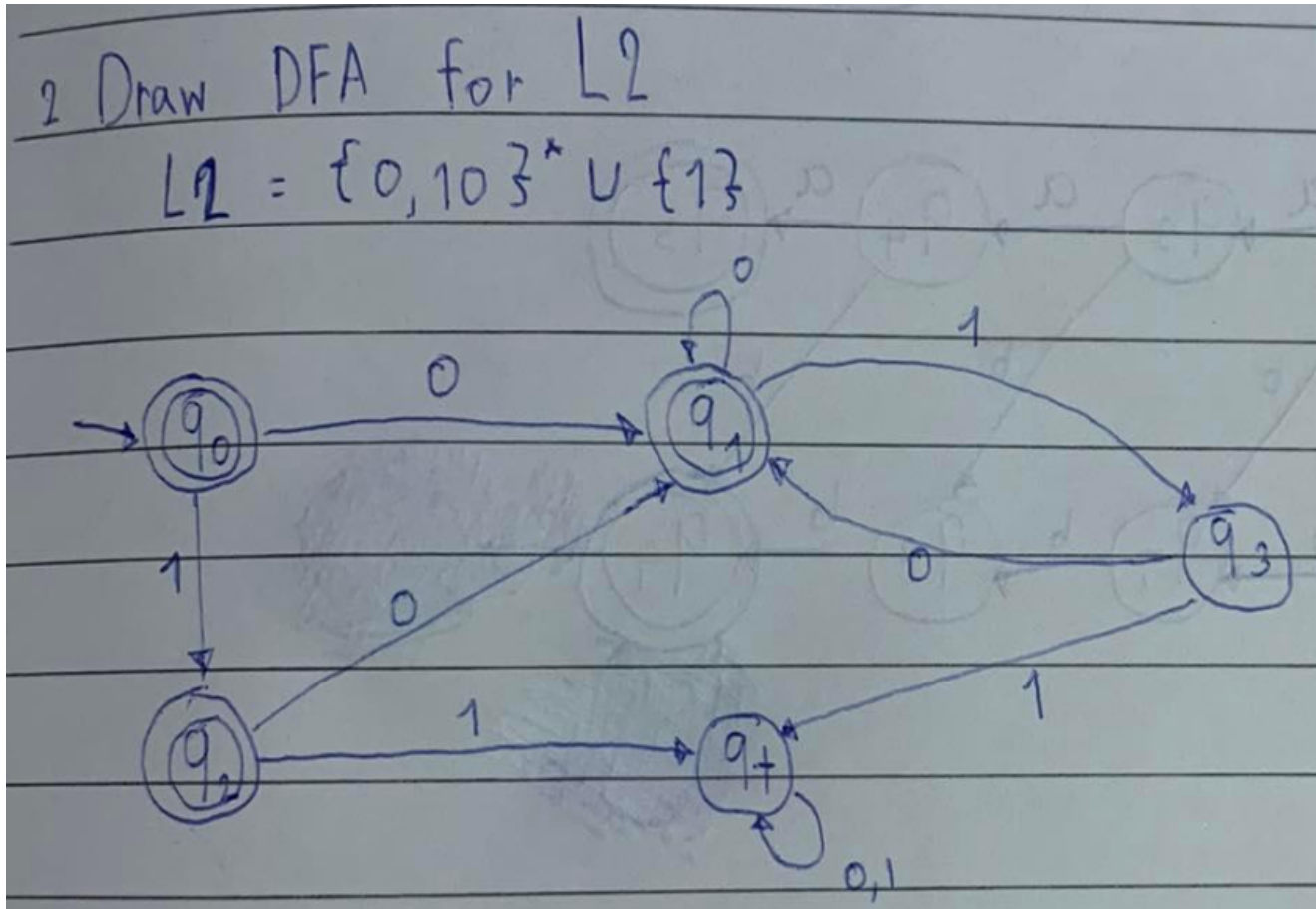## Exercise 2: (Deterministic Finite Automata - DFA)

1. Draw DFA for L1

$$L1 = \{w \in \{0,1\}^* : w \text{ has no substring } 11\}$$
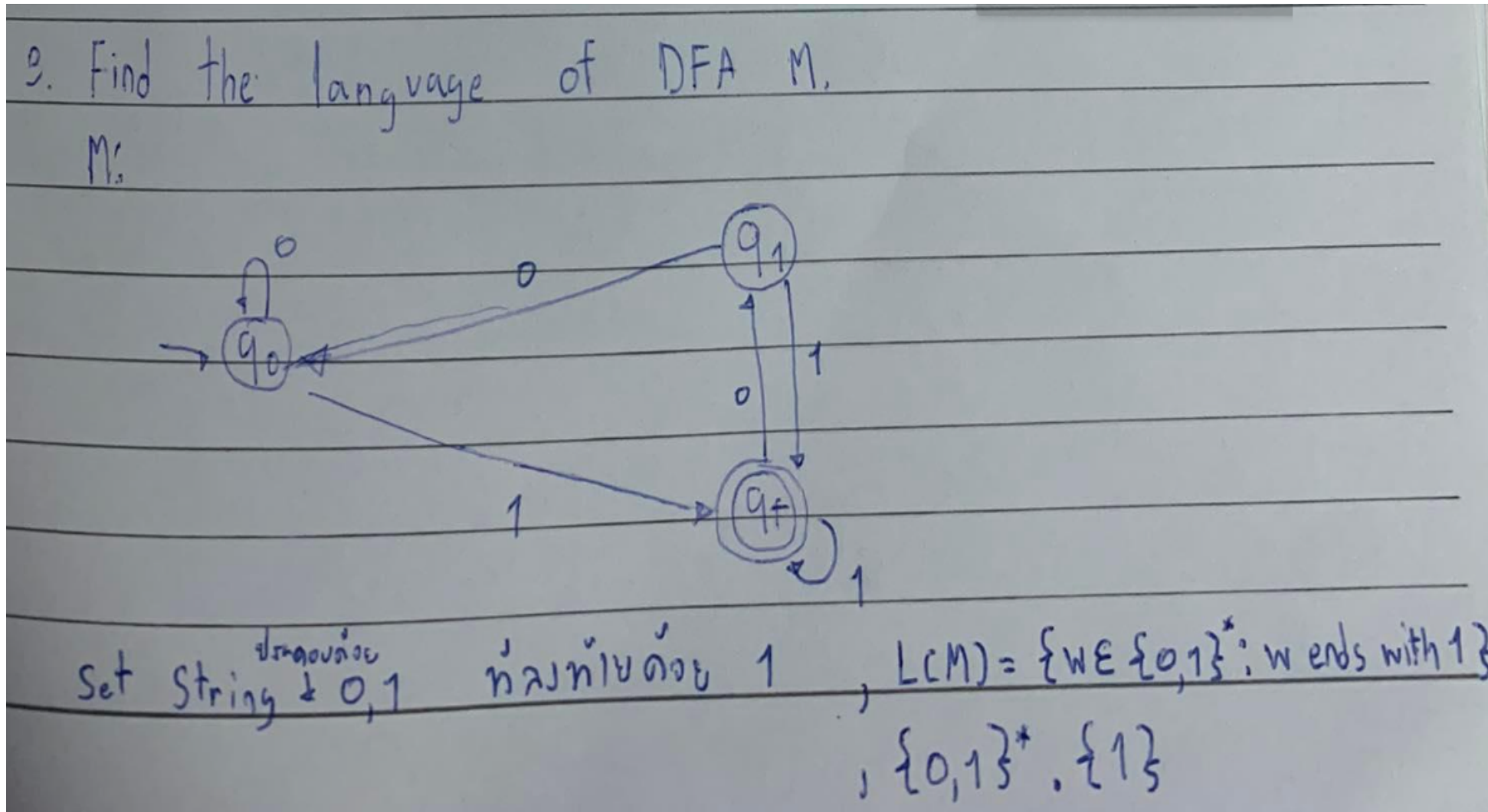
2. Draw DFA for L2

$$L2 = \{0, 10\}^* \cup \{1\}$$

3. Find the language of DFA M.

3. Find the language of DFA M,

M:

Set String ที่กอบด้วย 0,1 ทั้งหมดโดย 1 ตัวสุดท้าย , $L(M) = \{w \in \{0,1\}^* : w$ ends with $1\}$

, $\{0,1\}^* . \{1\}$

* 4. Draw DFA for L3

$$L3 = \{\, a^m\, b^n : m + n = 5;\;\; m\ and\ n\ \geq 0\,\}$$