Assignment 2

1. Consider the following nondeterministic finite automata:

Inputs States	0	1	3
A	{A, C}	{A}	
В	{B}	{B, D}	{A}
C	{C, B}	{C}	
D			

where state A is the start state and state D is the final state. The blank entry in the table represents the empty set.

- (1) Draw its transition diagram according to the transition table.
- (2) Simulate this NFA using the ε-closure and move functions with respect to the input strings 01010 and 01101. (請參閱投影片 pp.65~68 and 71)

2. Consider the following deterministic finite automaton,

Inputs States	0	1
A	D	A
В	C	В
С	С	В
D	С	D

where state A is the start state and state B is the final state.

- (1) Draw its transition diagram according to the transition table.
- (2) Simulate this DFA using the move function with respect to the input strings 01101. (請參閱投影片 pp.81 and 82)

Deadline: March 21, 2022