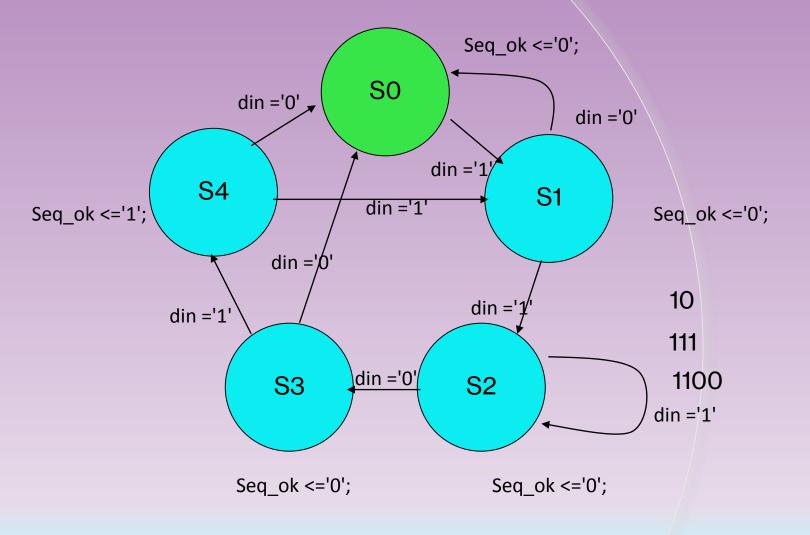
Dr. Fatma Hanafy Elfouly



- Contains 2 types (overlapped & non-overlapped)
- Can be in extracting any fixed sequence in a digital frame
- no. of states = no. of bits +1

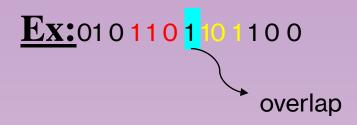
Without overlap

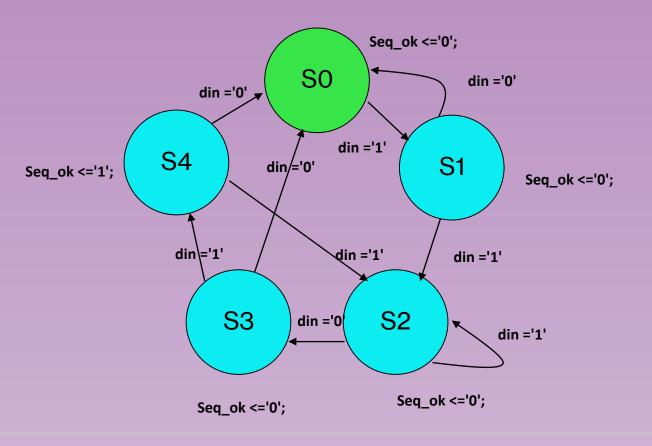
11011101



Design and simulate the finite state machine FSM needed for a sequence detector to detect the sequence (i.e. "1101") when applied at its input.

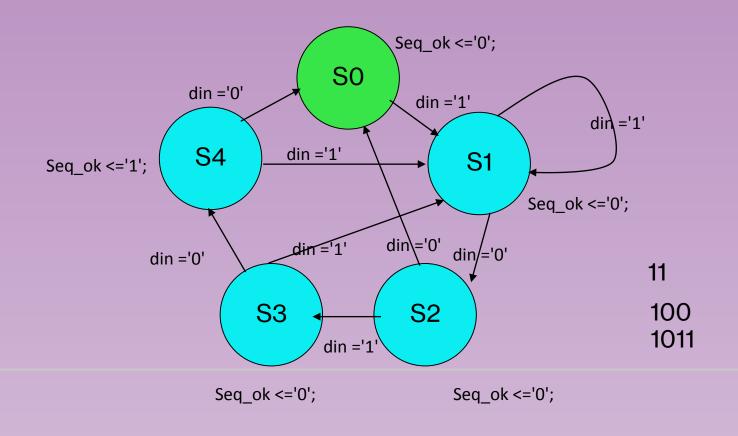
With overlap





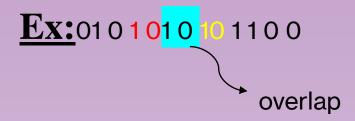
Design and simulate the finite state machine FSM needed for a sequence detector to detect the sequence (i.e. "1101") when applied at its input.

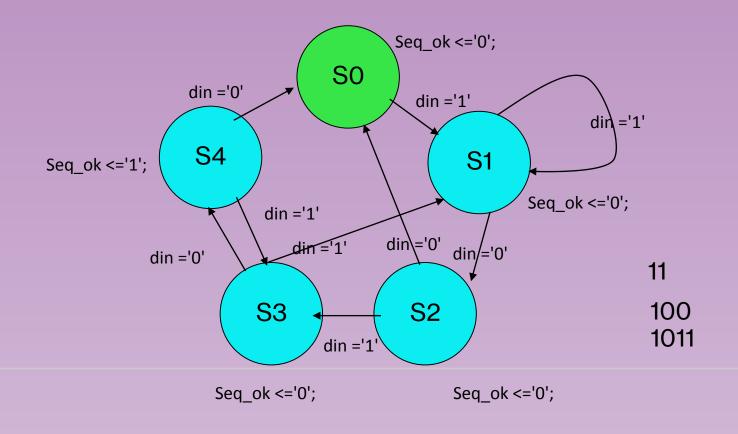
Without overlap



Design and simulate the finite state machine FSM needed for a sequence detector to detect the sequence (i.e. "1010") when applied at its input.

With overlap





Design and simulate the finite state machine FSM needed for a sequence detector to detect the sequence (i.e. "1010") when applied at its input.