

# Sequence Detector

## Pre-Lab Quiz:

1. What is the difference between combinational logic and sequential logic?
  - Combinational circuits are not triggered by timing pulses, sequential circuits are triggered by timing pulses.
  - Combinational and sequential circuits are both triggered by timing pulses.
  - Neither circuit is triggered by timing pulses.
  
2. The output of Mealy machine depends on:
  - Only on current state
  - Only on current input
  - Both on current state and current input
  
3. A sequence “110011” is to be detected, considering the overlap what will be the output if the input is 011011001100110011110011”
  - 000001000100010001000001
  - 000000000100010001000001
  - 100000000010001000100000
  - 000000000100010001000100