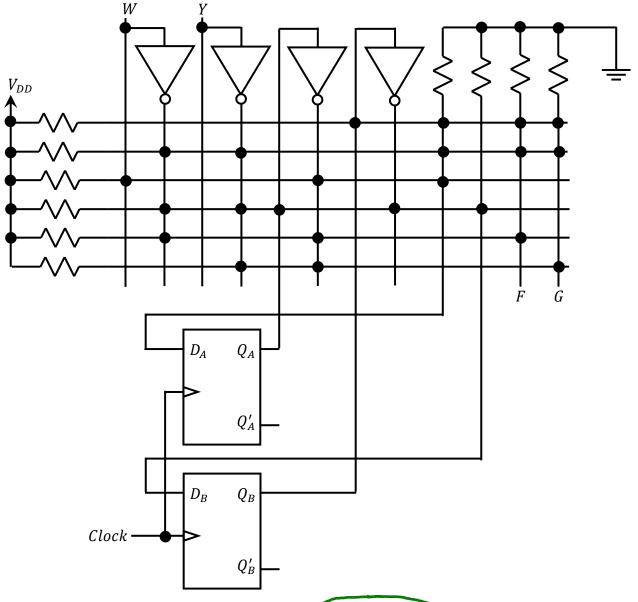
This is a 15 point problem



- a) What type of state machine is this? Moore Machine? Mealy Machine?
- b) Determine the Boolean expressions implemented by the PLA for the flip-flop inputs (D_A and D_B) and circuit outputs (F and G). All expressions should be in terms of the circuit inputs (F and F) and flip-flop outputs (F and F). [For example, F and F and F and F are inputs (F and F and F are inputs (F and F and F are inputs (F are inputs (F and F are inputs (F are i
- c) Determine the Next-State Maps for both flip-flops and the Output Maps for both outputs. [total of four maps].
- d) Determine the Transition Table for the state machine.
- e) Using the following state definitions, determine the State Table. S_0 (AB = 00), S_1 (AB = 01), S_2 (AB = 10), S_3 (AB = 11)
- f) Draw the properly formatted State Graph.
- g) Comment on what is unusual about state S_1 .

b) DA(W, Y, A,B) =