

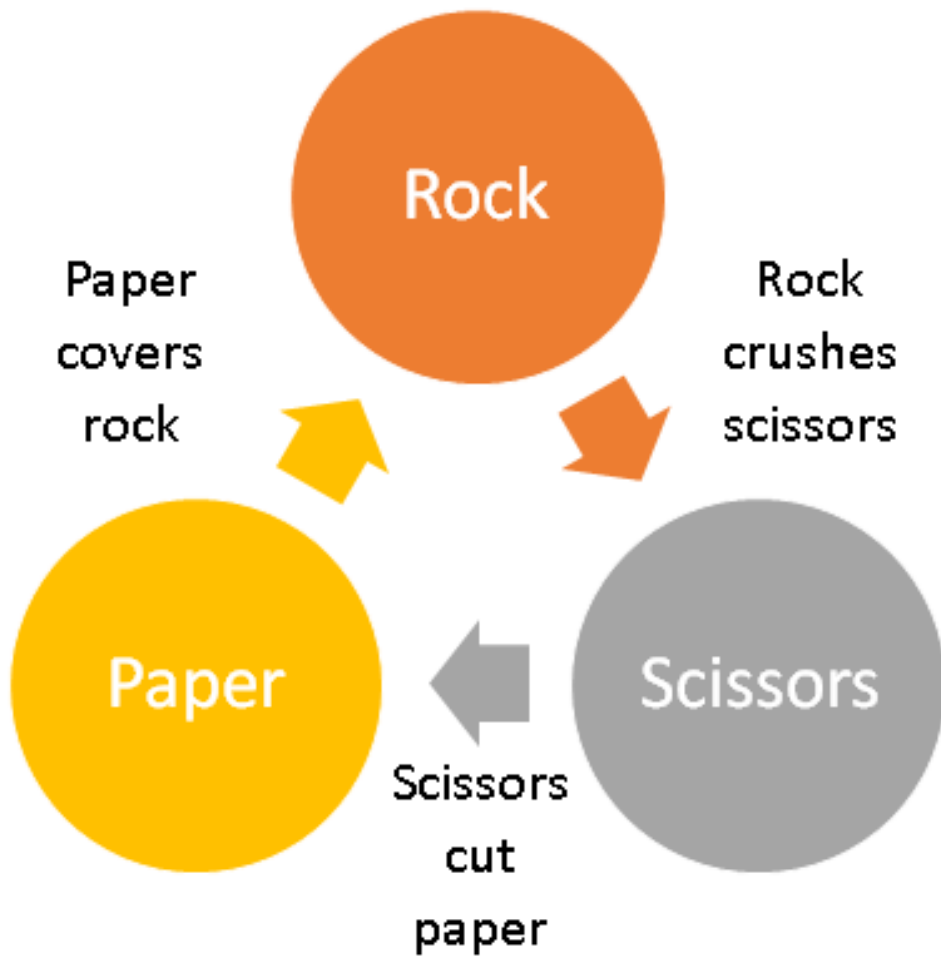


ROCK, PAPER, SCISSORS!

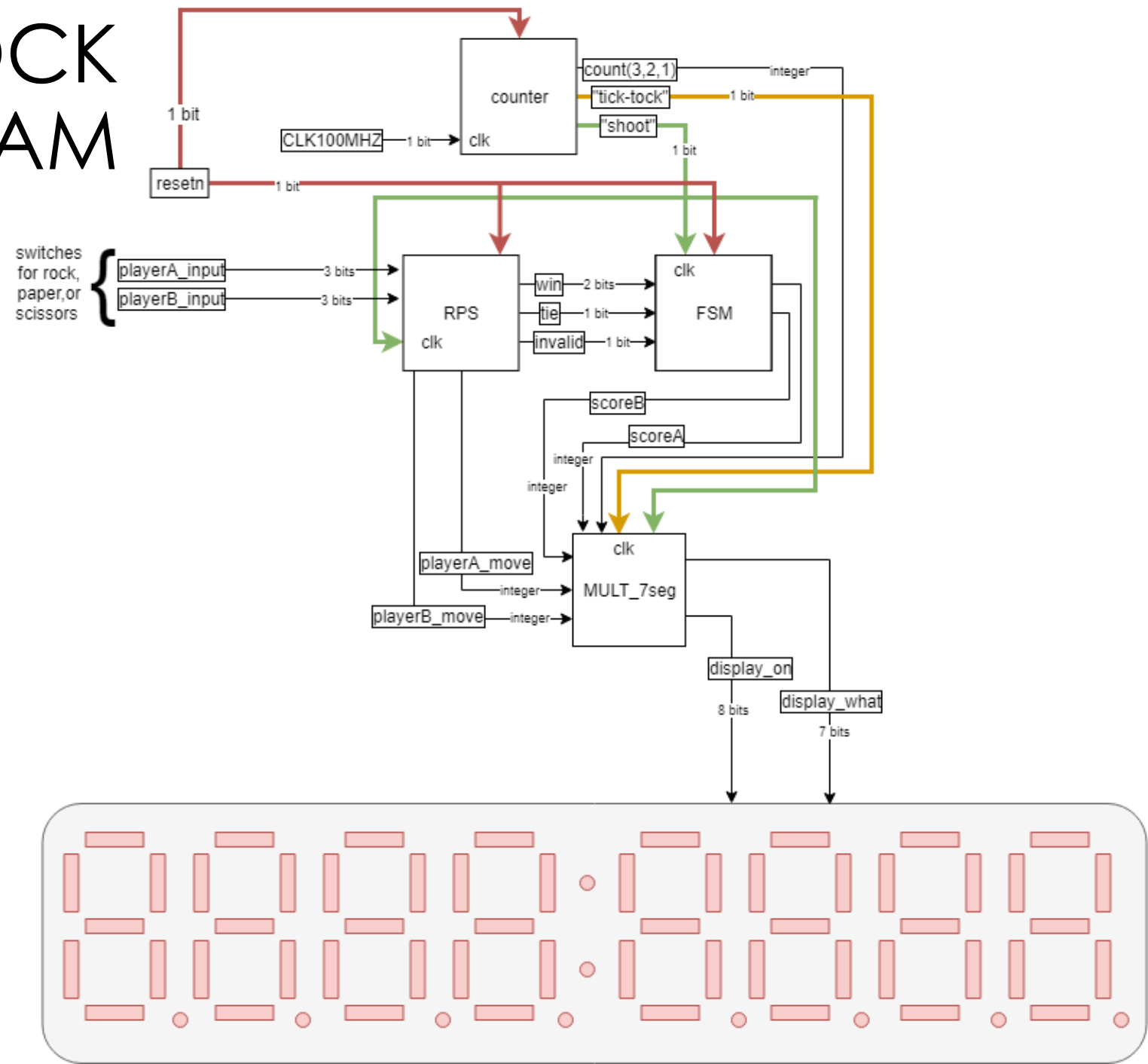
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RULES

- First player to 3 wins
- 3-2-1 “shoot”



BLOCK DIAGRAM



COMPARATOR

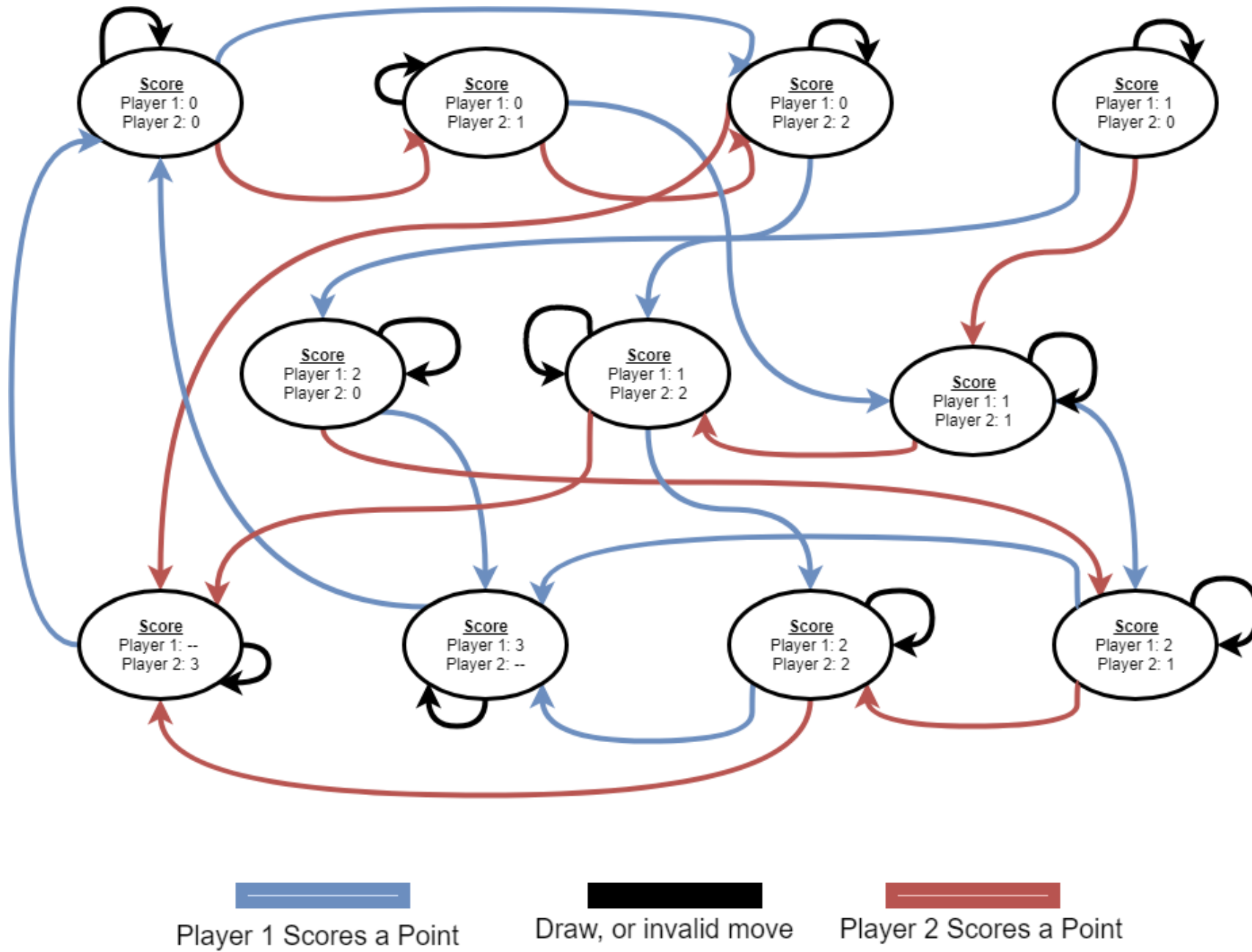
- 6 switches – 3 for each player
- Determines which player won
- Determines “Invalid” input or “Tie”
- Outputs what each player chose
 - “r” = rock
 - “P” = paper
 - “S” = Scissors
- Only processes on “shoot”
 - Shoot comes from counter



FSM

- 11 states
 - Represent the scores of each player
- Changes state based on which player won the round
 - Keeps track of the scores
- Outputs to the multiplexing display

STATE MACHINE





COUNTER

- The main driver of the project
- Controls:
 - When to compare two players' moves
 - Controls state changes
- Counts the amount of time to trigger certain processes



MULTIPLEXING DISPLAY

- Used to determine when individual segments are displayed
 - Also determines what is displayed when enabled
- Allows for the user to receive feedback based on the state of the game