Mealy Model

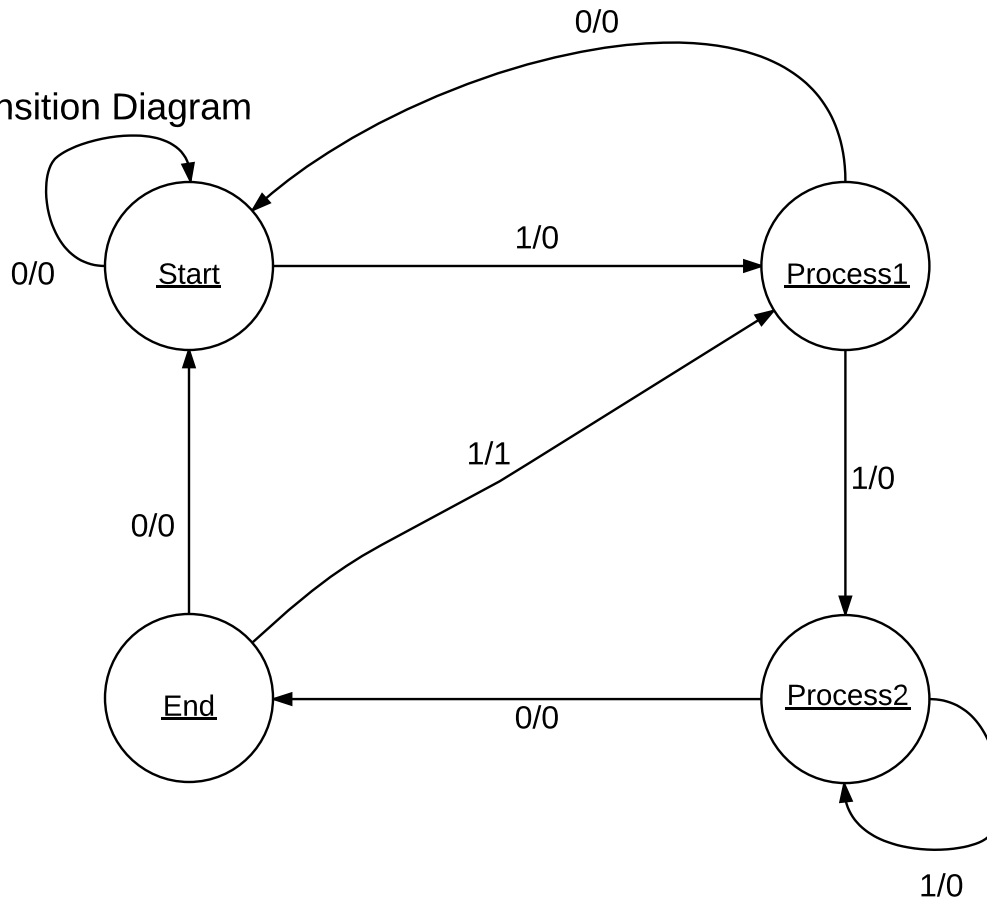## State Transition Diagram

RTL Diagram