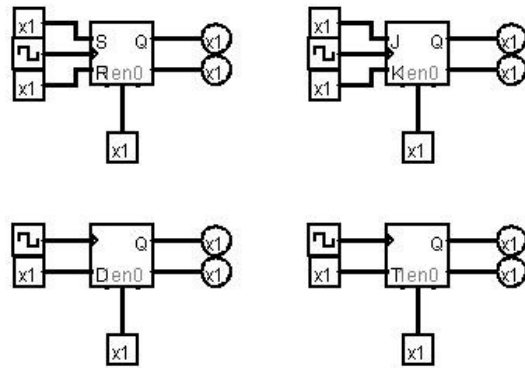
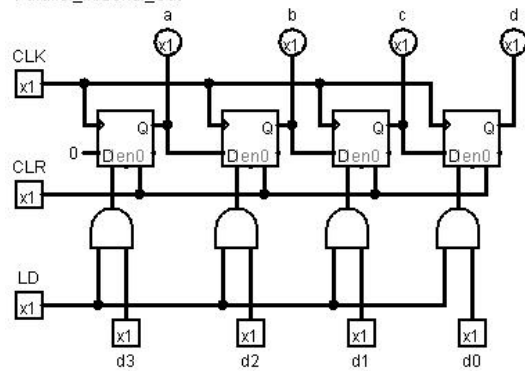


## Flip-flops

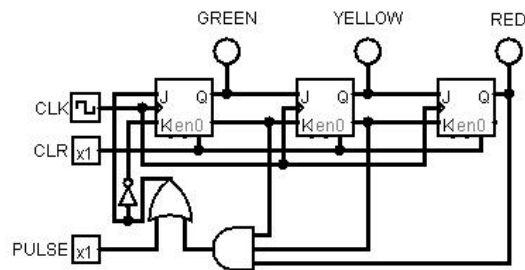


## Parallel\_In/Serial\_Out



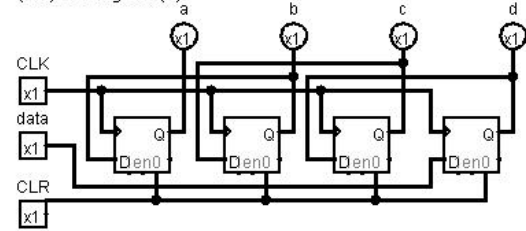
OPS: data - CLR - LD - CLK

## Semaphore

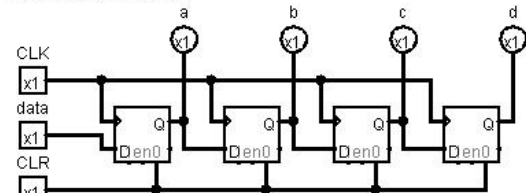


Operation: CLR - PULSE (UP) - CLK - PULSE (DOWN) - CLK ...

## (Left) Shift register (D)

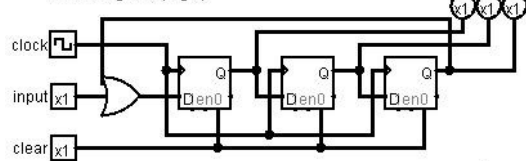


## (Right) Shift register (D)

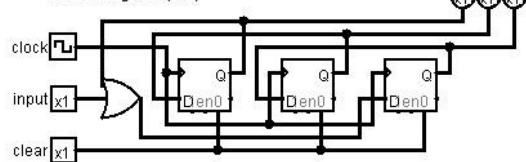


OPS: data - CLK

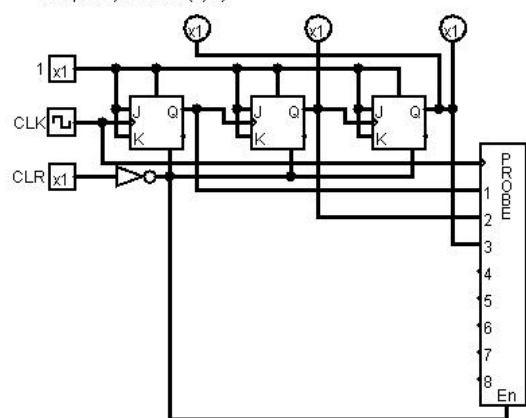
## Rotate Register (Right)



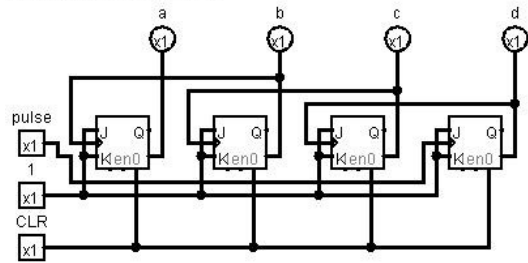
## Rotate Register (Left)



## Frequency Division (by 2)

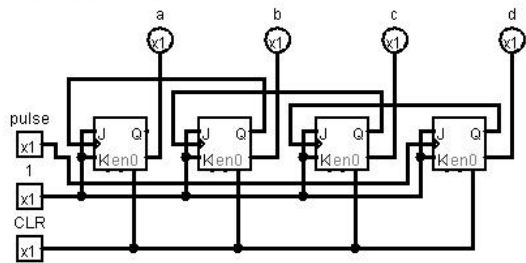


(Down) Asynchronous counter



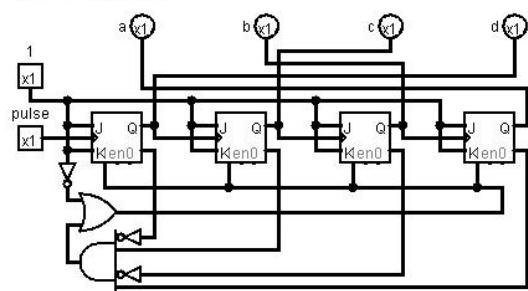
OPS: CLR - 1 - pulse

(Up) Asynchronous counter

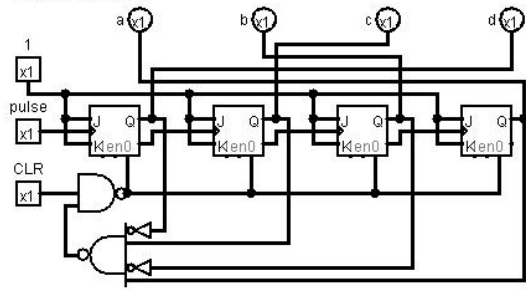


OPS: CLR - 1 - pulse

(Down) Decade counter

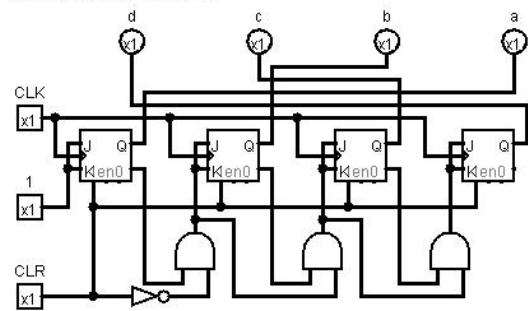


(Up) Decade counter



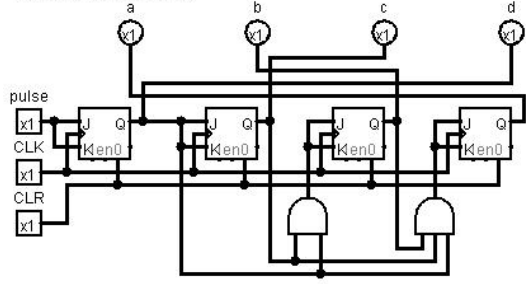
OPS: CLR - 1 - pulse

(Down) Synchronous counter



OPS: CLR - 1 - CLK

(Up) Synchronous counter



OPS: CLR - pulse - CLK

