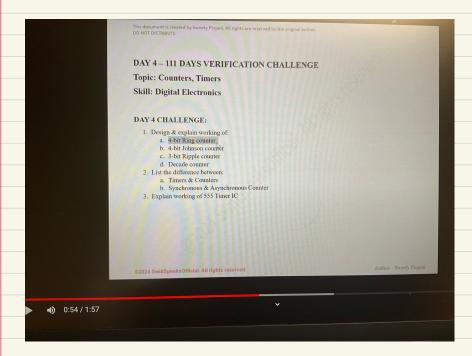
Day 4 - Counters 5 Sept



Ring Country (4 bit ring Counter) no. of States = no. Ob blip blops
bor a ting counter.

the same value is looped around

R is bedback eupstions 3 > Why have We given

Preset to FPI & 92PST WE QFP

giving CLR (ORI) -> override Input

> what are ging counters.

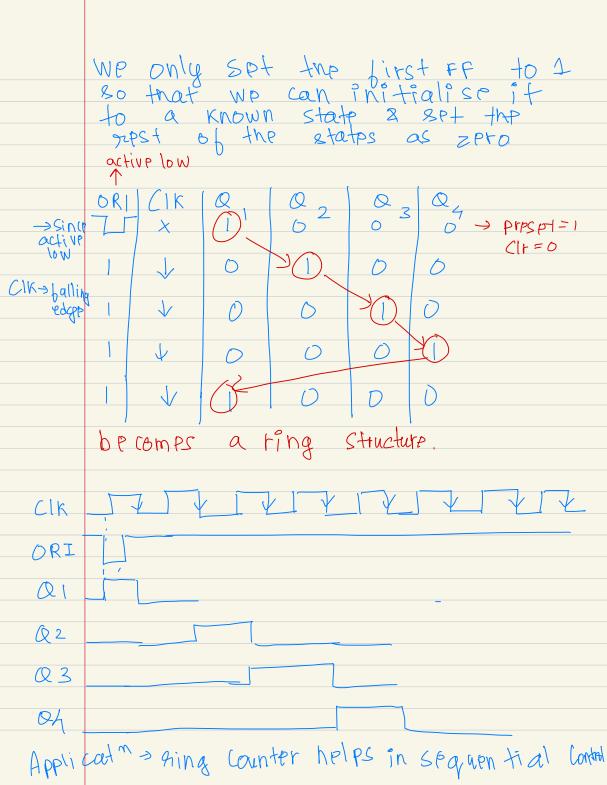
> Why are ring counters used.

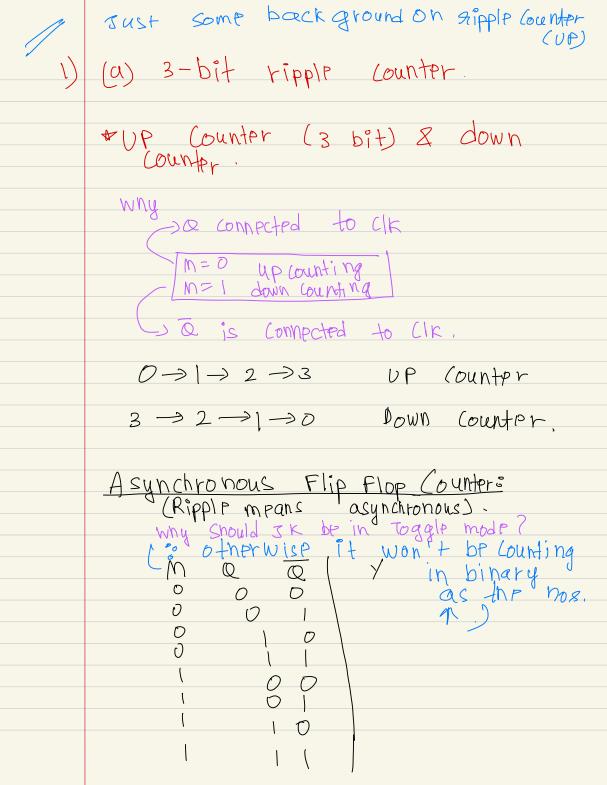
> How does ring counter work? ORI -> Thosa are Proset & Clear. SO I PR =0 =) Q=1 Zouse

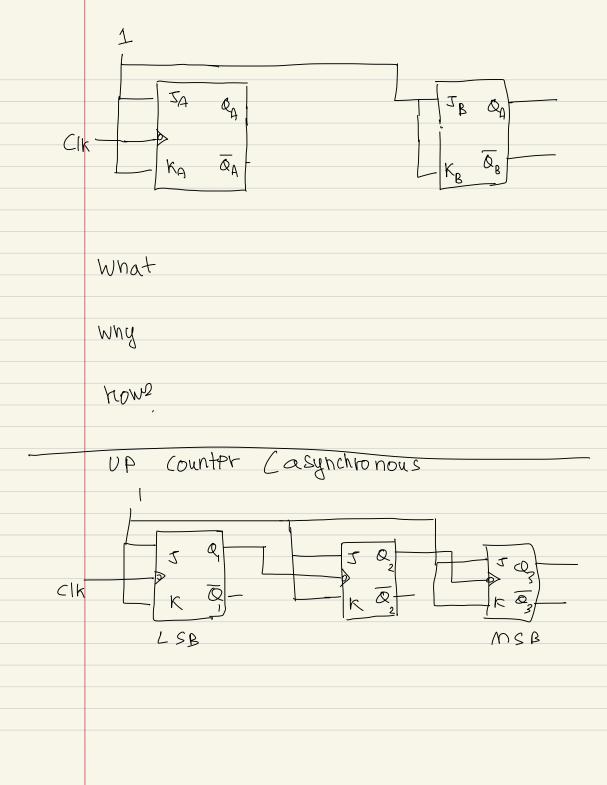
CIR=0 =) Q=0 Janis

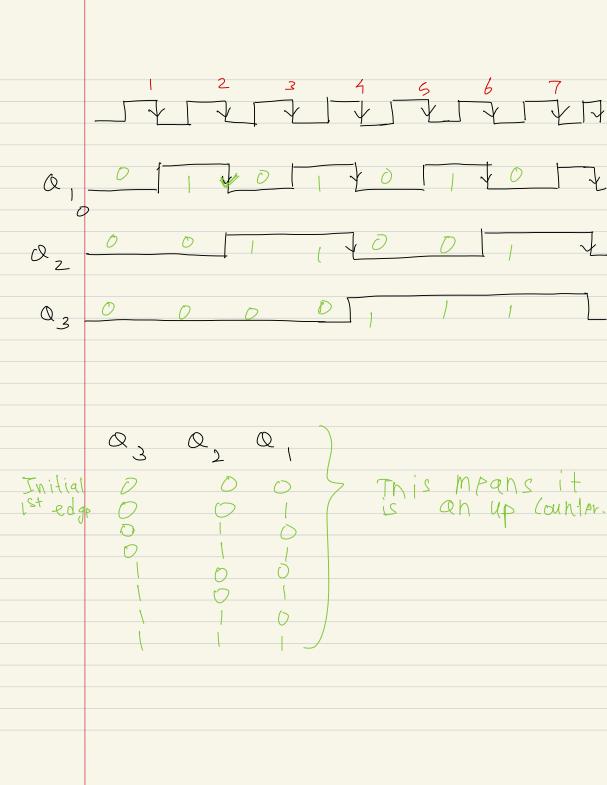
borabove of

ORI always Overgides regardless









(b) 4 bit Johnson's Counter The dilletence b/w 4-bit Johnson's Counter D& Ripple Counter is that there is no initial state (and a Req. for Johnson's Counter as opposed to Ripple Counter. CIK initially all the PFs are initialized at 0. Q no- of Stater //

tiphoe, for 4 blip lops WP Can see there are 8 states. bit ripple up/down counter. Casynchronous ; y g follows a M=0 Bor M 2 up country 0 down Counter Y = Y = MQ+MQ

