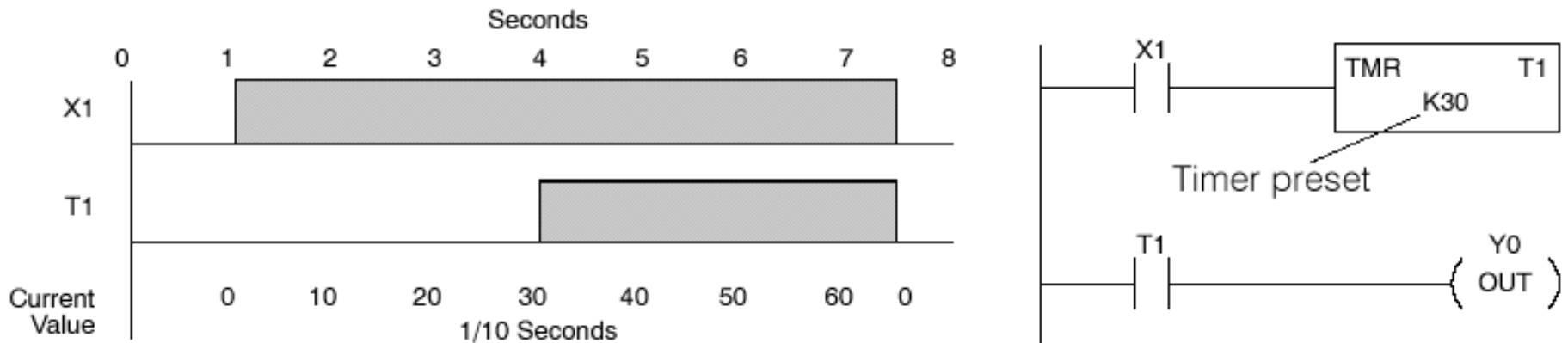


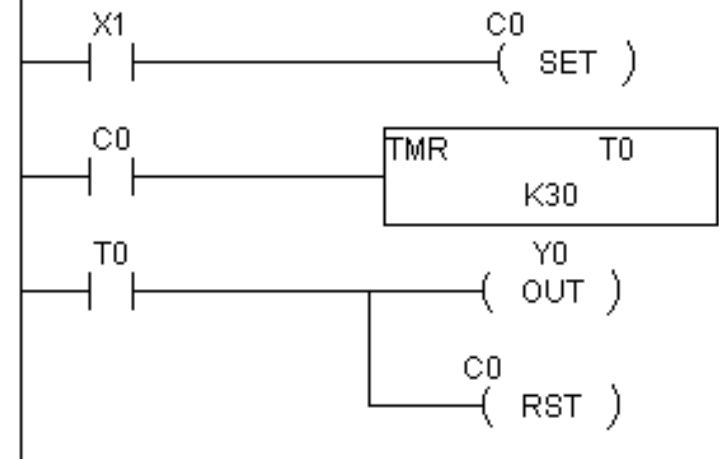
TIMERS - TMR AND TMRF



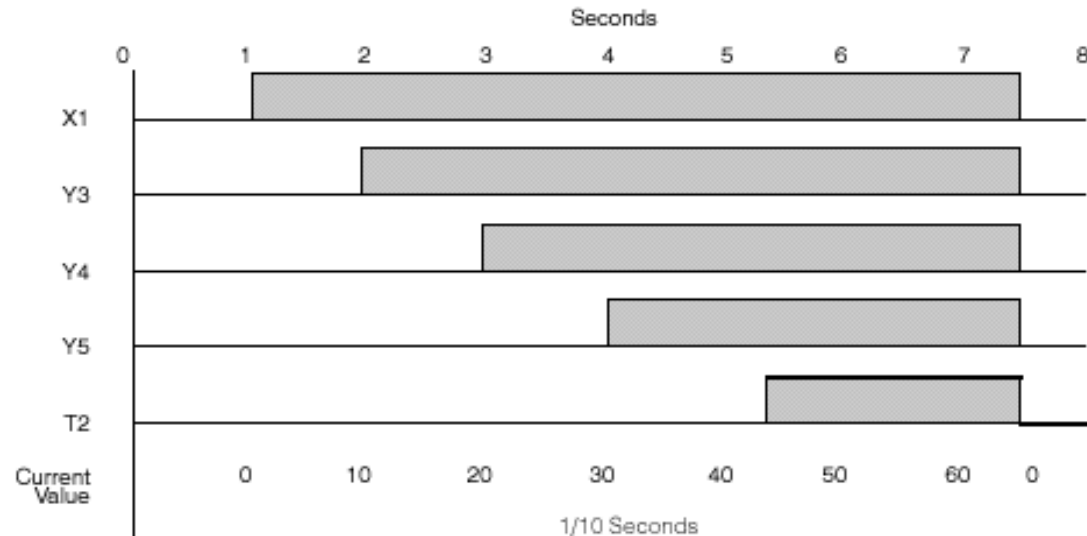
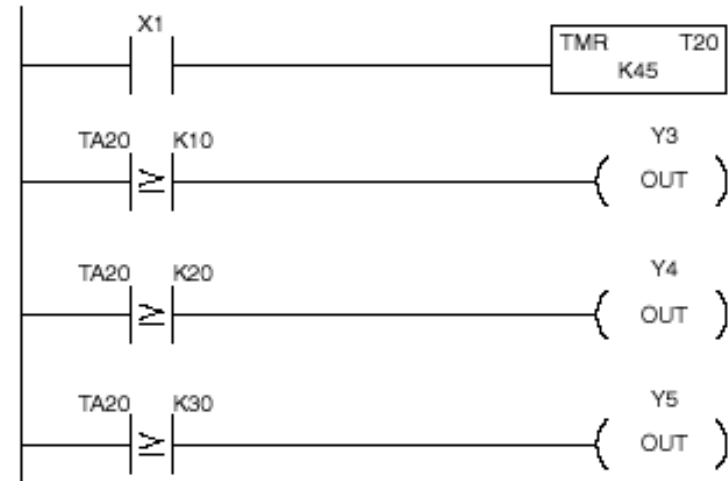
Latch timer input if it may go low before timeout!

TMR: 0.1s to 999.9s

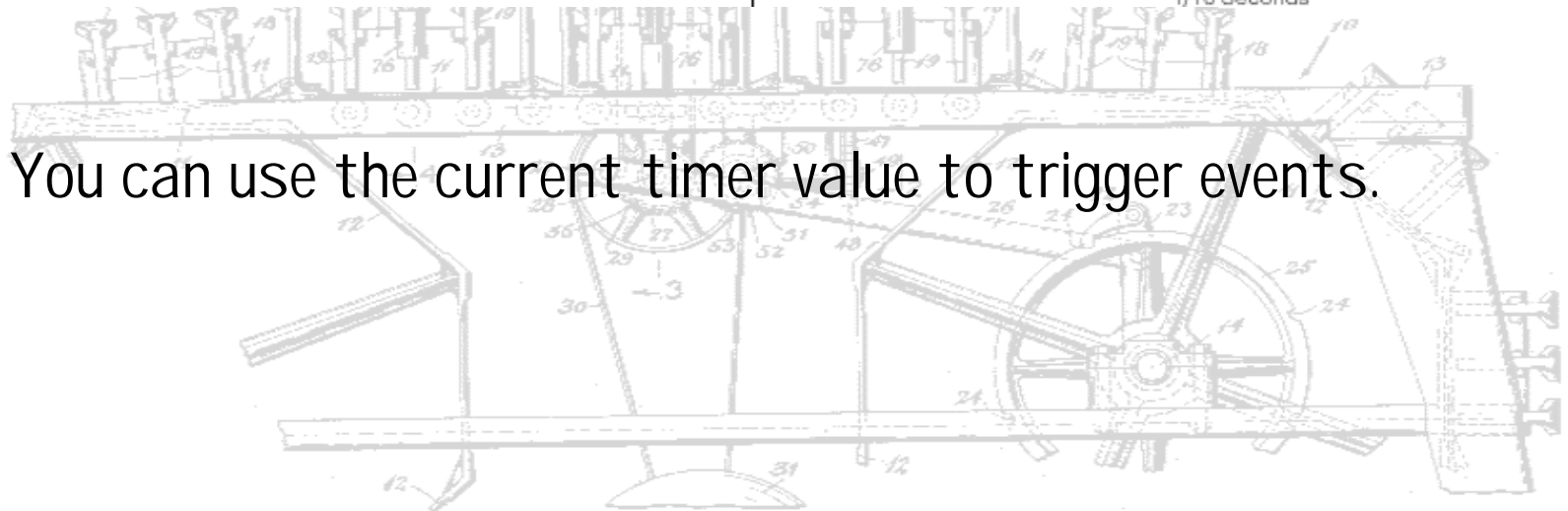
TMRF: 0.01s to 99.99s



TIMERS - TMR AND TMRF



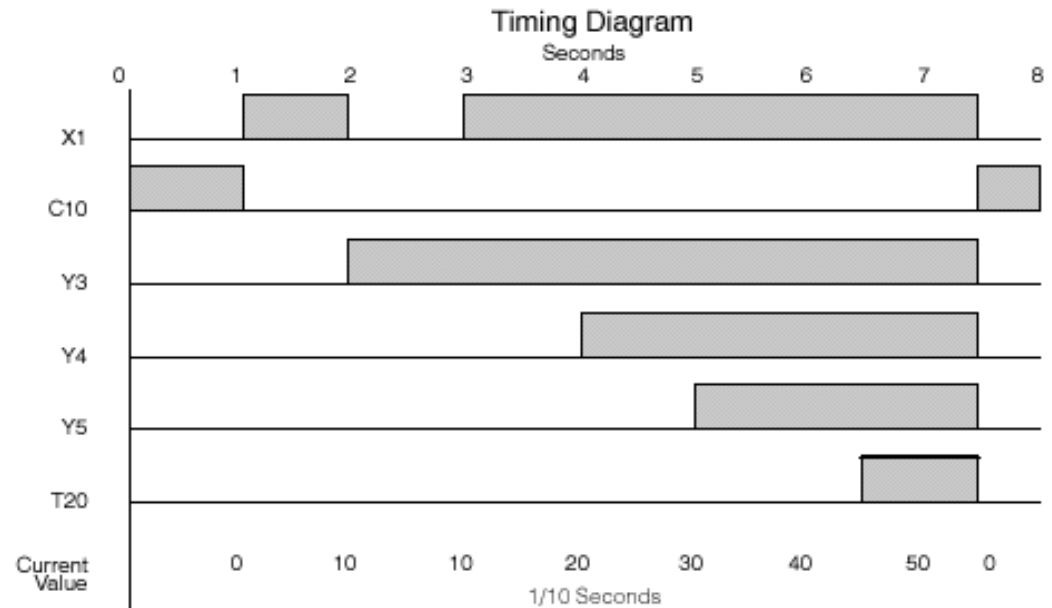
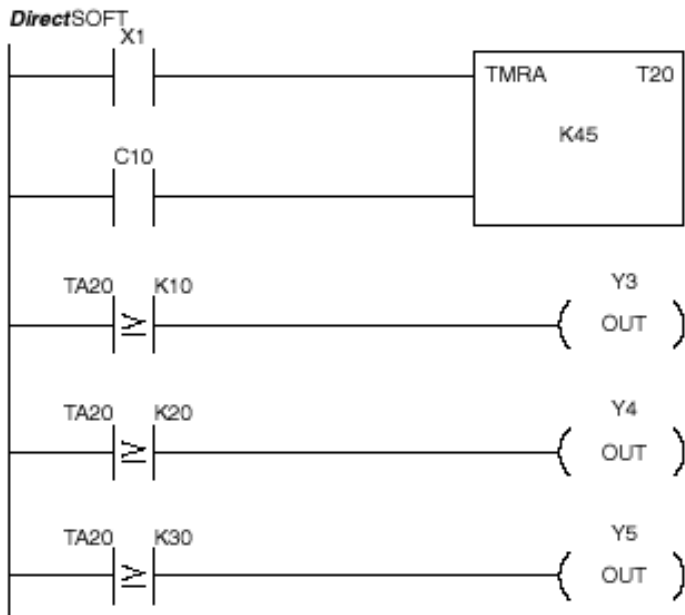
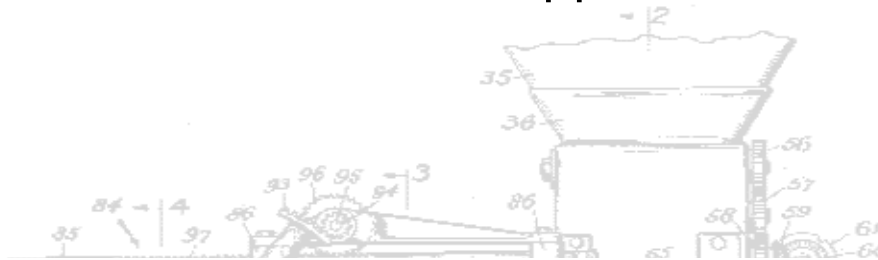
You can use the current timer value to trigger events.



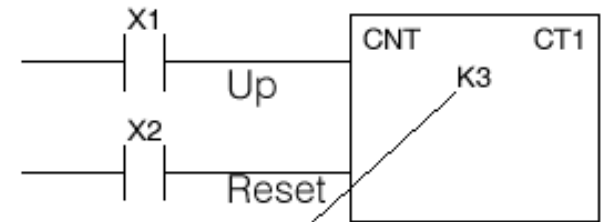
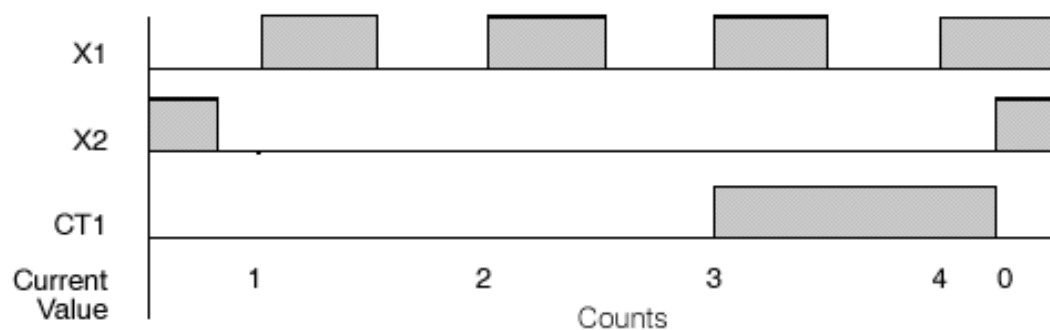
TIMERS - TMRA AND TMRAF

Accumulative Timer (TMRA)

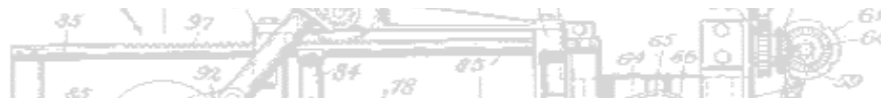
- Can be started, stopped and reset



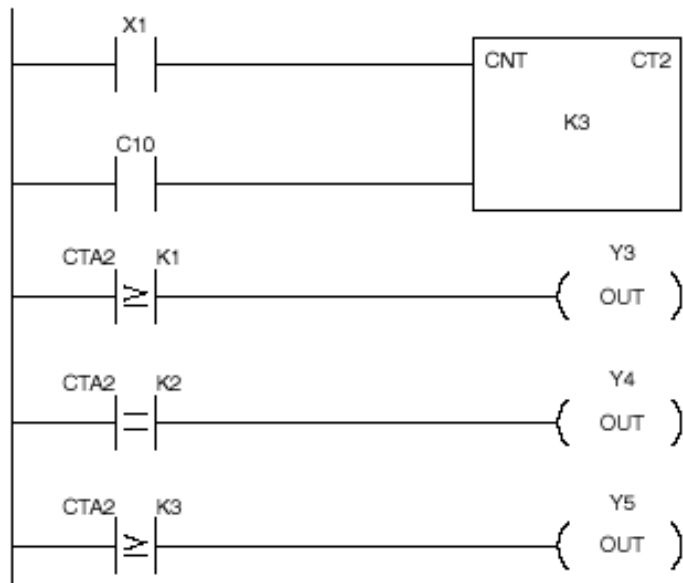
COUNTERS - CNT



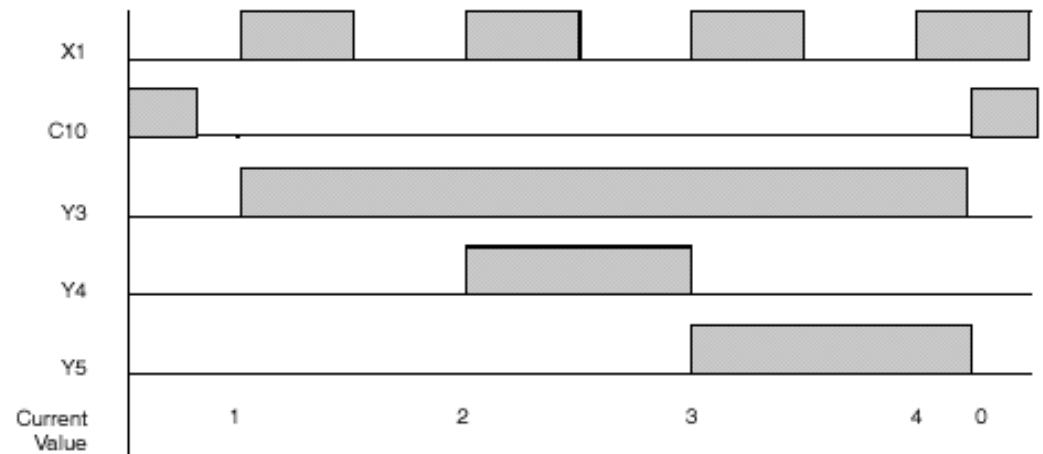
Counter preset



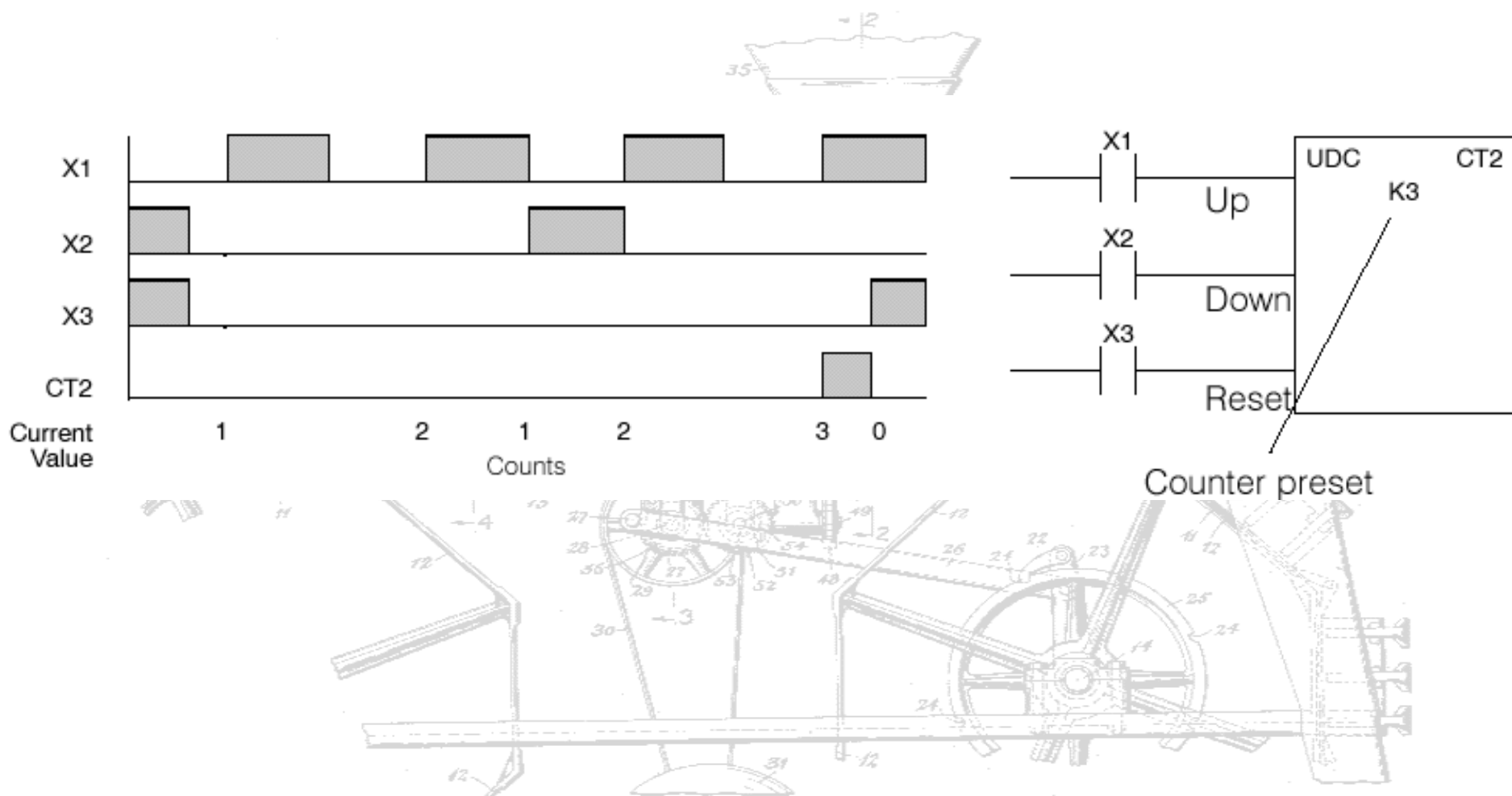
DirectSOFT



Counting diagram

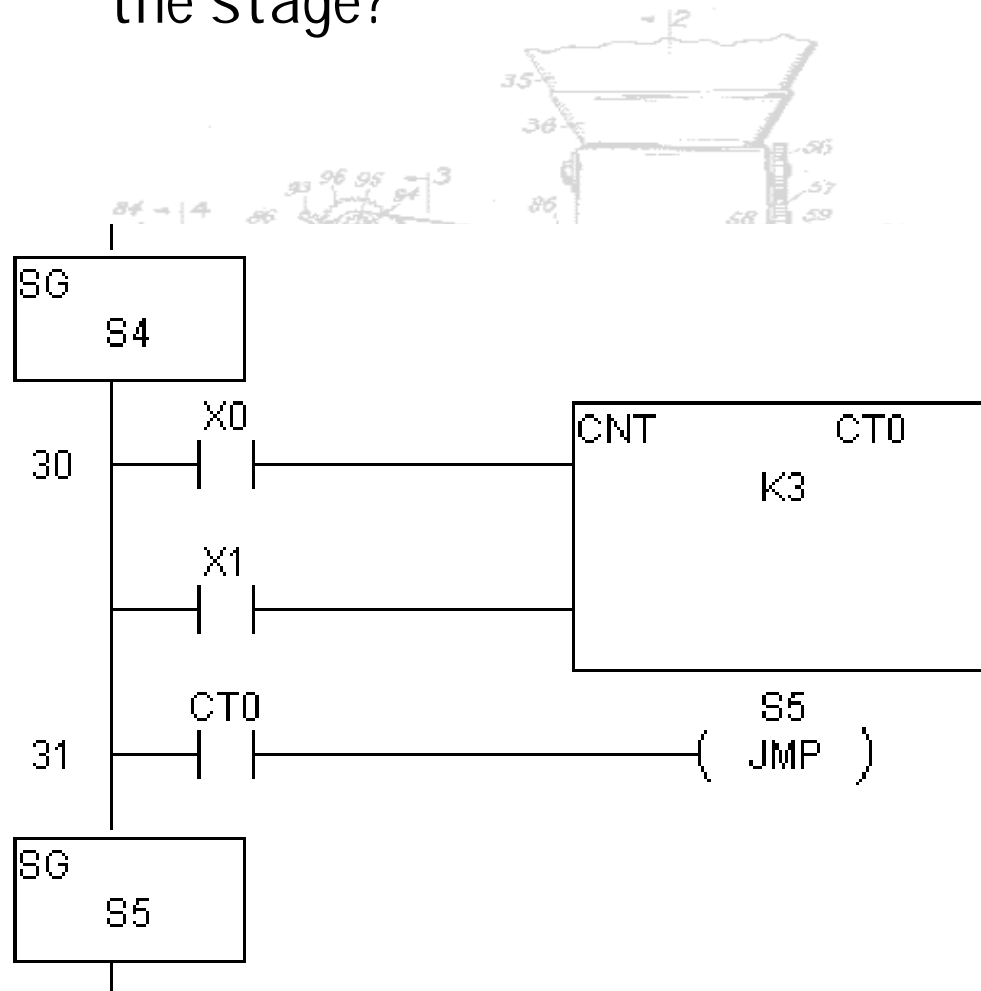


COUNTERS - UDC



COUNTERS - SGCNT

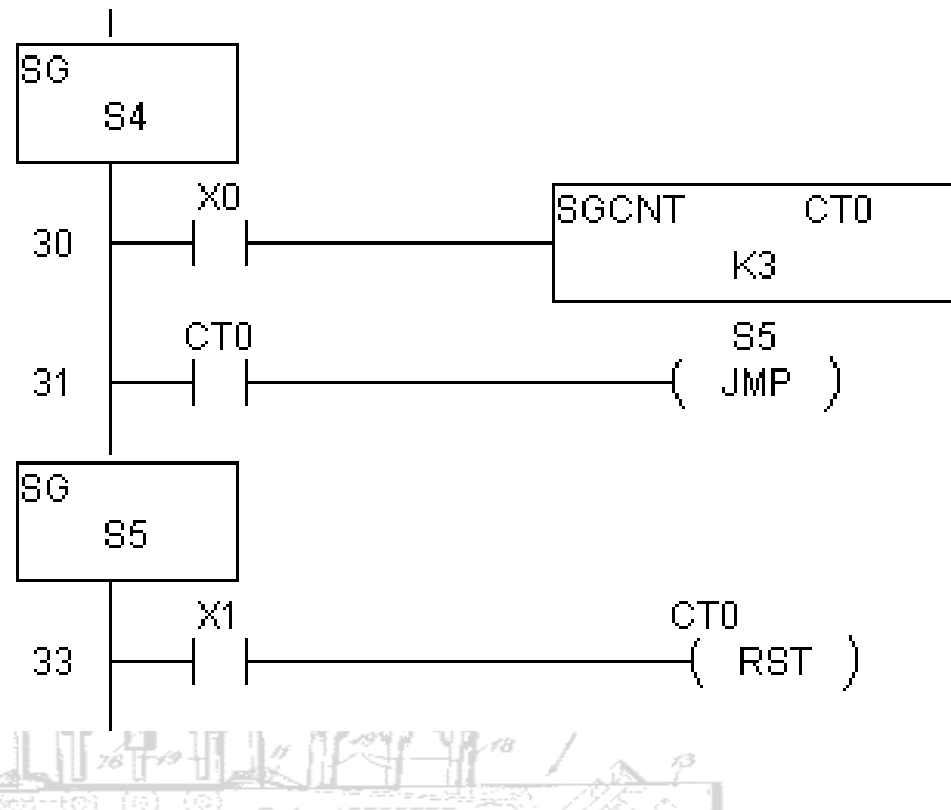
What if you need to reset a counter after you have left the stage?



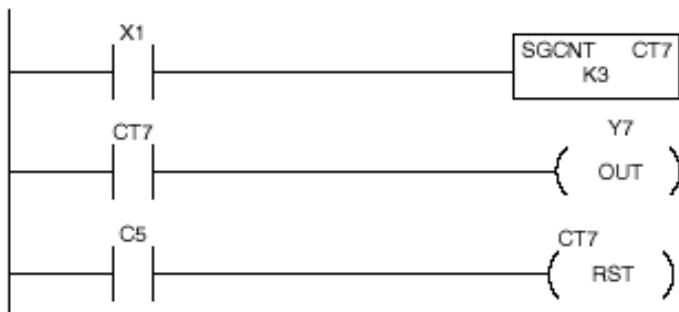
COUNTERS - SGCNT

Stage Counter

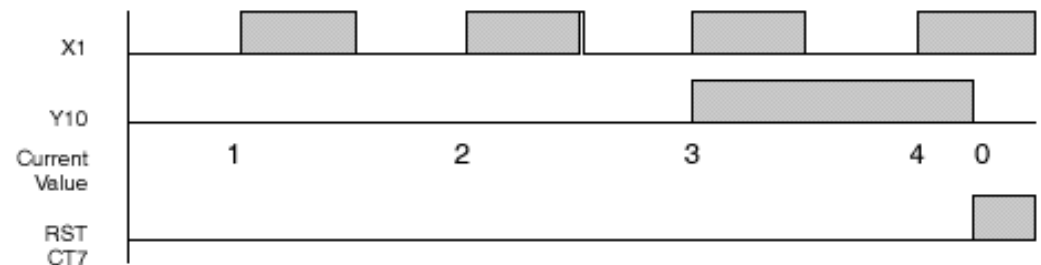
-Reset with a special RST coil.



DirectSOFT



Counting diagram

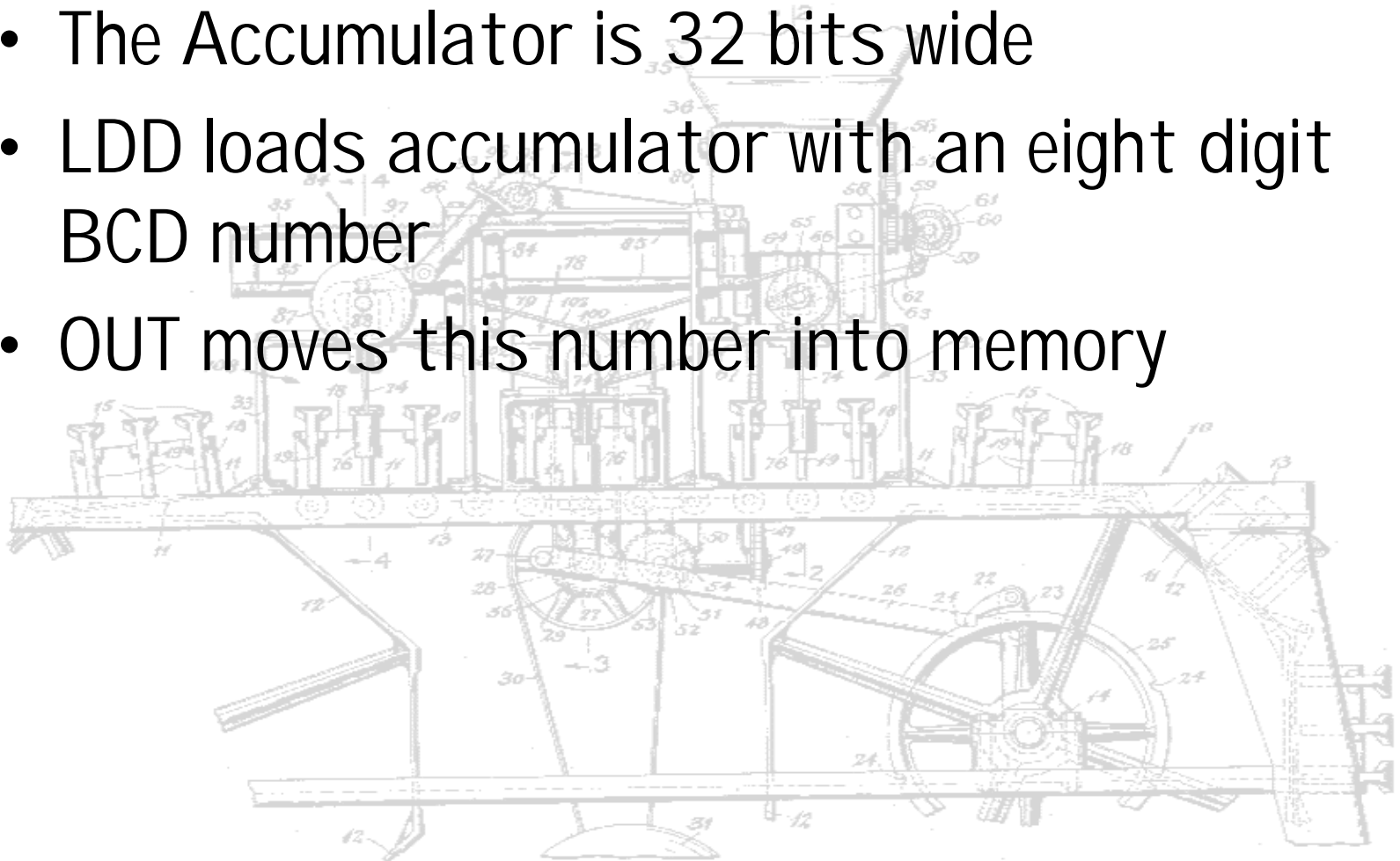


PLC MEMORY

- Memory Addresses
 - V0000, V0001, V0002, ..., V0007, V0010
 - Addresses are specified in OCTAL (base 8)
- Memory Values
 - Each memory location holds 16 bits (2 bytes)
- Constants
 - Constants to load into memory are specified in Binary Coded Decimal (BCD)
 - Two BCD digits fit in one byte, four digits in one memory location

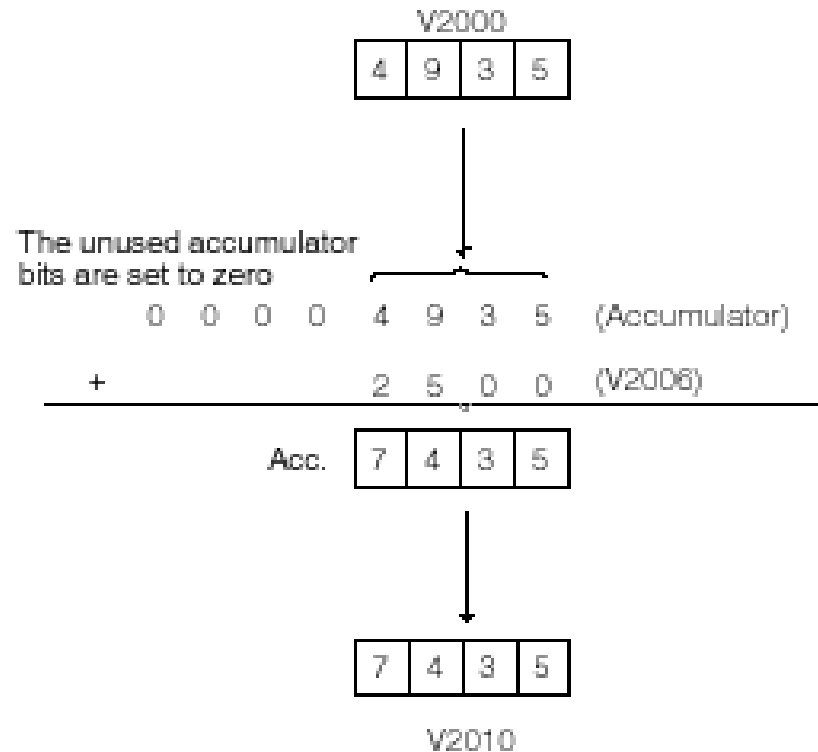
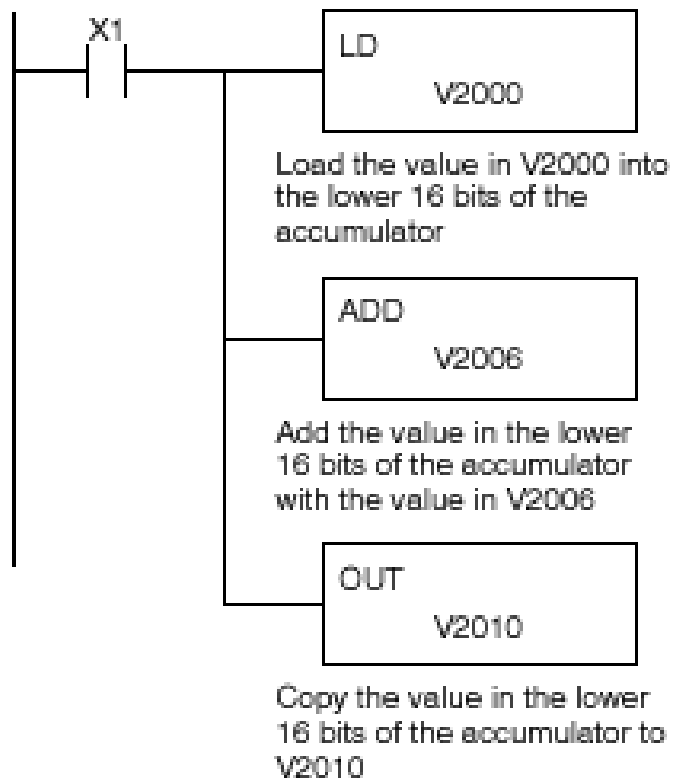
PLC MEMORY

- Memory locations are loaded from the ACCUMULATOR, where all math is done
- The Accumulator is 32 bits wide
- LDD loads accumulator with an eight digit BCD number
- OUT moves this number into memory



MATH FUNCTIONS

DirectSOFT



V2000, V2006, V2010 are variable memory locations

PLC MEMORY

