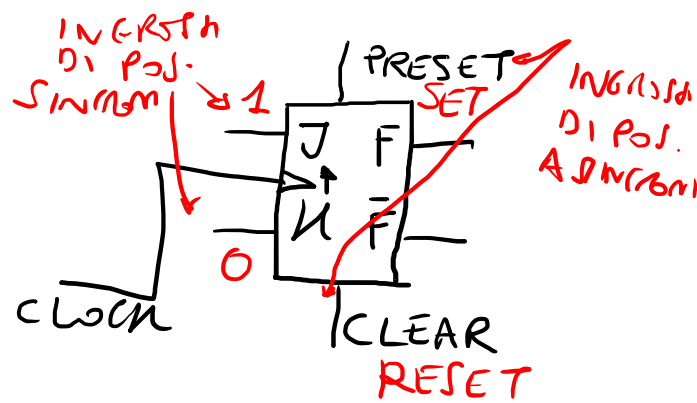
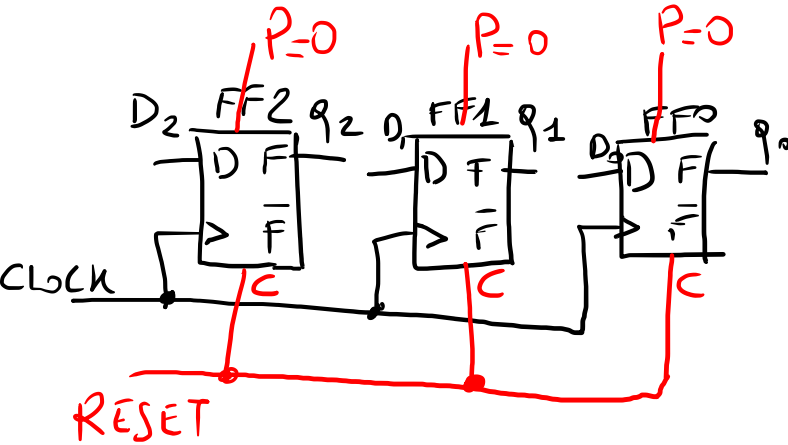
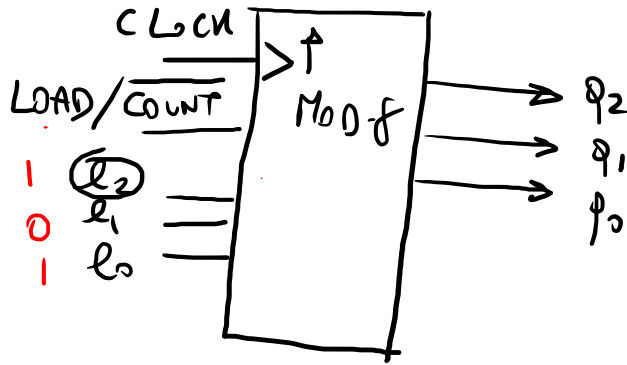


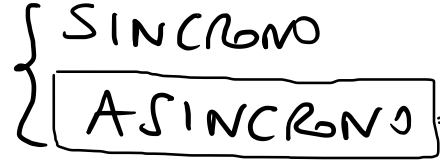
# RESET ASINCRONO



- $\left\{ \begin{array}{l} PC = 00 \leftrightarrow \text{NEUTRA} \checkmark \\ PC = 01 \leftrightarrow \text{RESET} \\ PC = 10 \leftrightarrow \text{SET} \\ PC = 11 \leftrightarrow \text{VIETATA} \end{array} \right.$

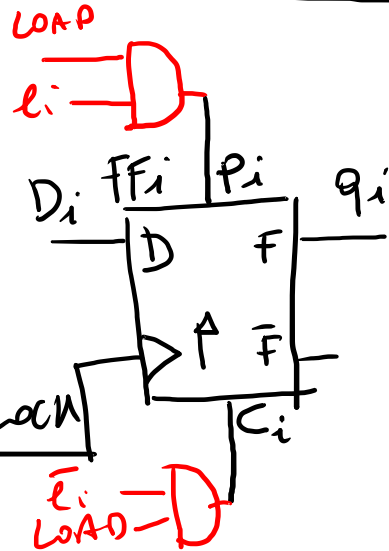


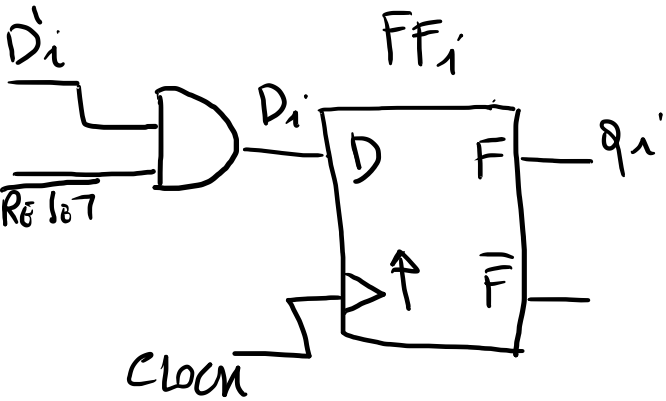
PRECARICAMENTO



$$P_i = \begin{cases} 0 & \text{se } \text{LOAD} = 0 \\ l_i & \text{se } \text{LOAD} = 1 \end{cases} = l_i \cdot \text{LOAD}$$

$$C_i = \begin{cases} 0 & \text{se } \text{LOAD} = 0 \\ \bar{l}_i & \text{se } \text{LOAD} = 1 \end{cases} = \bar{l}_i \cdot \text{LOAD}$$



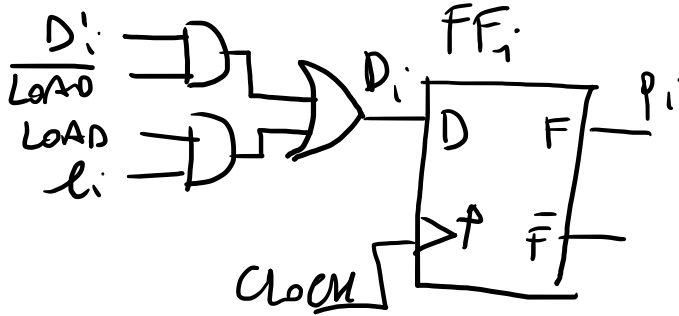
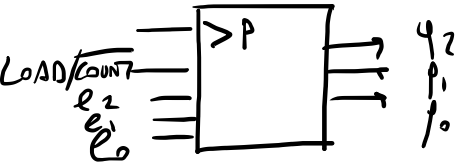


RESET SINCRONO

$$D_i = \begin{cases} D_i & \text{se } \text{RESET} = 0 \\ 0 & \text{se } \text{RESET} = 1 \end{cases}$$

$$\begin{aligned} D_i' &= D_i' \cdot \overline{\text{RESET}} = \\ &= \overline{\overline{D_i' \cdot \overline{\text{RESET}}}} = \\ &= \overline{D_i + \text{RESET}} \end{aligned}$$

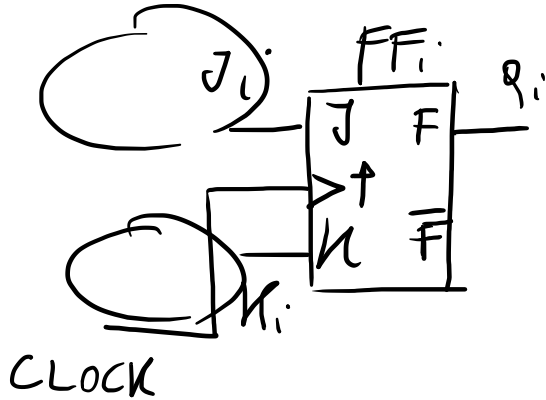
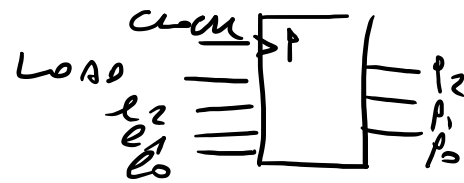
# PRECARICAMENTO SINCRONO (FF D)



$$D_i = \begin{cases} D_i & \text{se } LOAD = 0 \\ l_i & \text{se } LOAD = 1 \end{cases}$$

$$D_i = D_i \cdot \overline{LOAD} + l_i \cdot LOAD$$

# PRECARICAMENTO SINCRONO (FF JK)



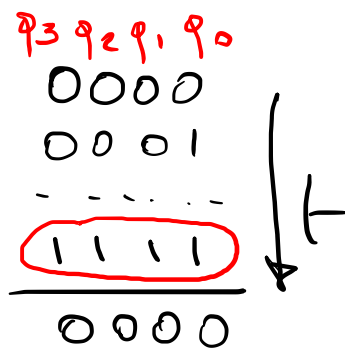
$$J_i = \begin{cases} J_i' & \text{se } \text{LOAD} = 0 \\ l_i & \text{se } \text{LOAD} = 1 \end{cases}$$

$$K_i = \begin{cases} K_i' & \text{se } \text{LOAD} = 0 \\ \bar{l}_i & \text{se } \text{LOAD} = 1 \end{cases}$$

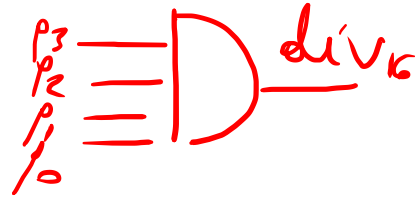
$$J_i = J_i' \cdot \overline{\text{LOAD}} + l_i \cdot \text{LOAD}$$

$$K_i = K_i' \cdot \overline{\text{LOAD}} + \bar{l}_i \cdot \text{LOAD}$$

# USCITA div

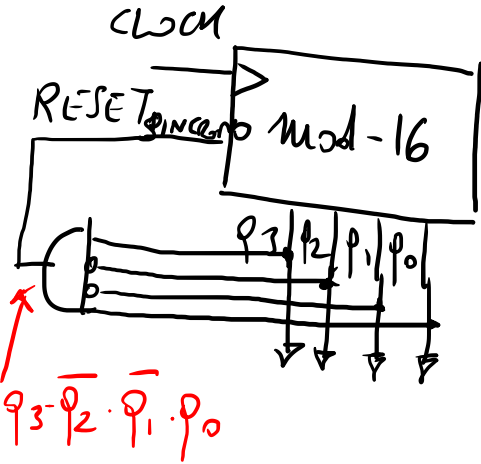


$$div_{16} = q_3 \cdot q_2 \cdot q_1 \cdot q_0$$





# COUNTABLE MOD-10 DA MOD-16



$q_3 \cdot \overline{q_2} \cdot \overline{q_1} \cdot \overline{q_0}$

$q_3 \ q_2 \ q_1 \ q_0$   
0000  
0001  
0010  
-----

→  $\frac{1001}{0000}$



MOD-10 DA MOD-16

