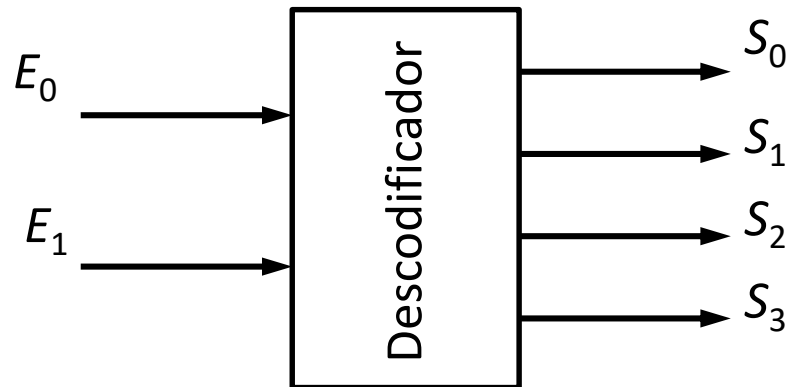
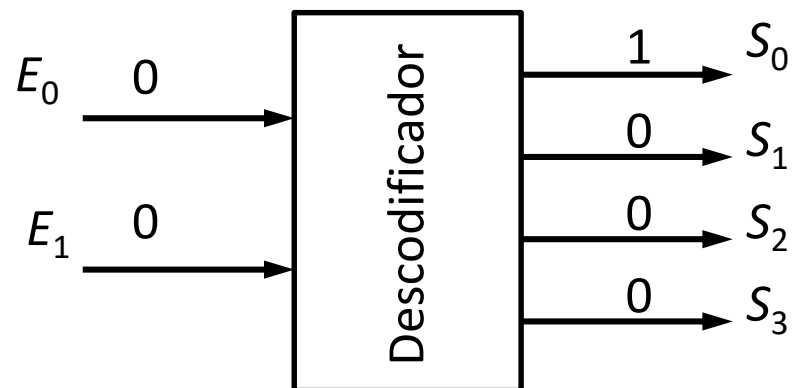
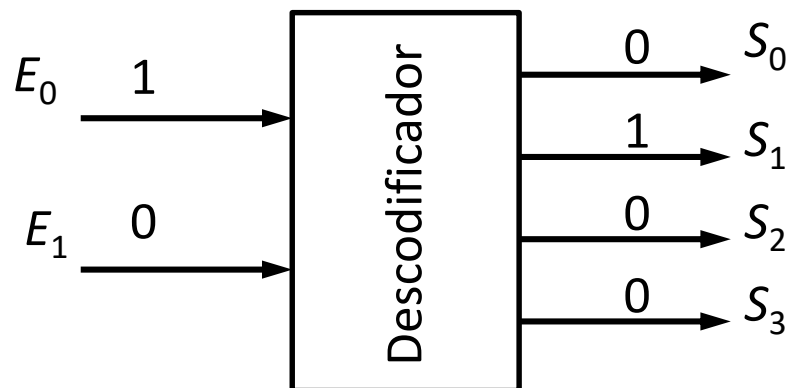


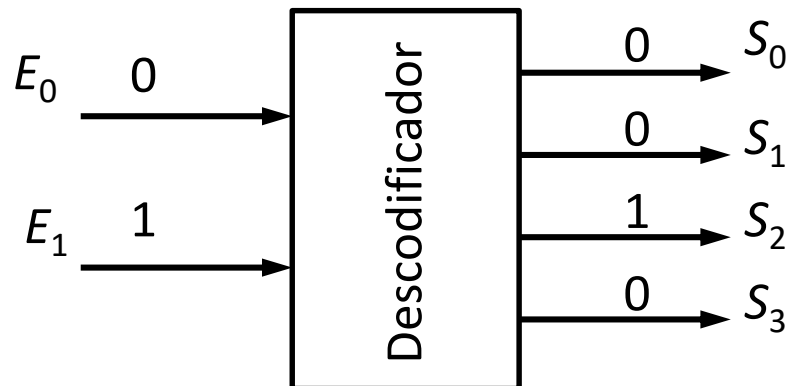
Um “descodificador” é um circuito combinacional que a partir de um uma palavra binária de n bits activa uma de 2^n saídas (colocando-a p. ex. a “1”). Um “descodificador de 2 para 4” (ou 2×4), p. ex, possui 2 entradas e 4 saídas e produz um “1” lógico na saída S_2 quando a entrada é “10” (e um “0” lógico para todas as outras combinações de entradas (ver fig. abaixo).

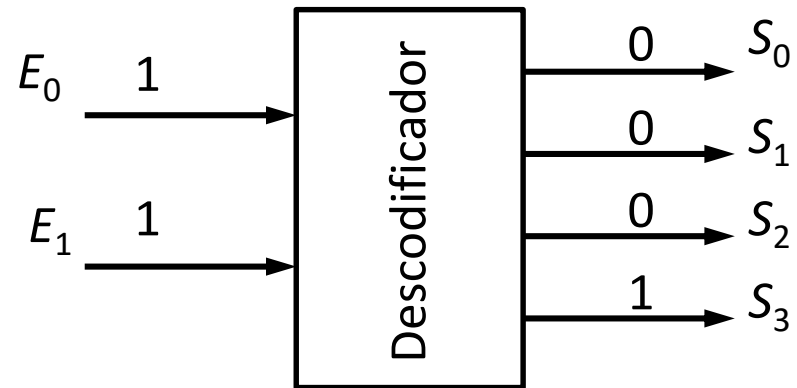


Apresente o diagrama lógico de um circuito que implemente um decodificador 2×4 .

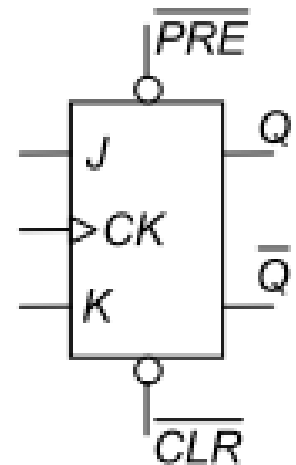
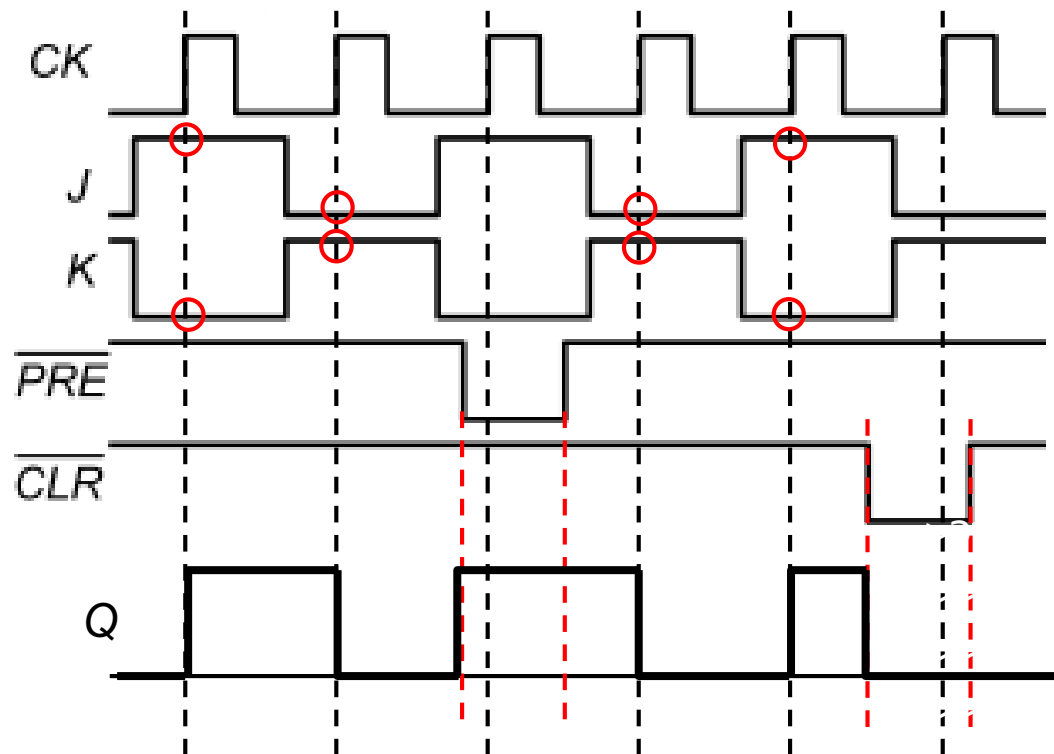






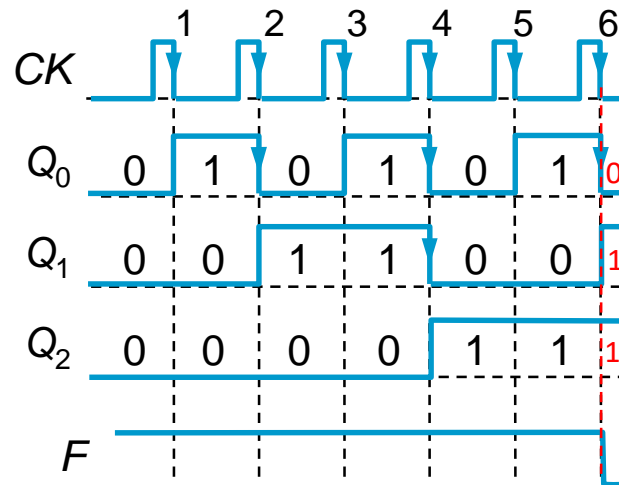
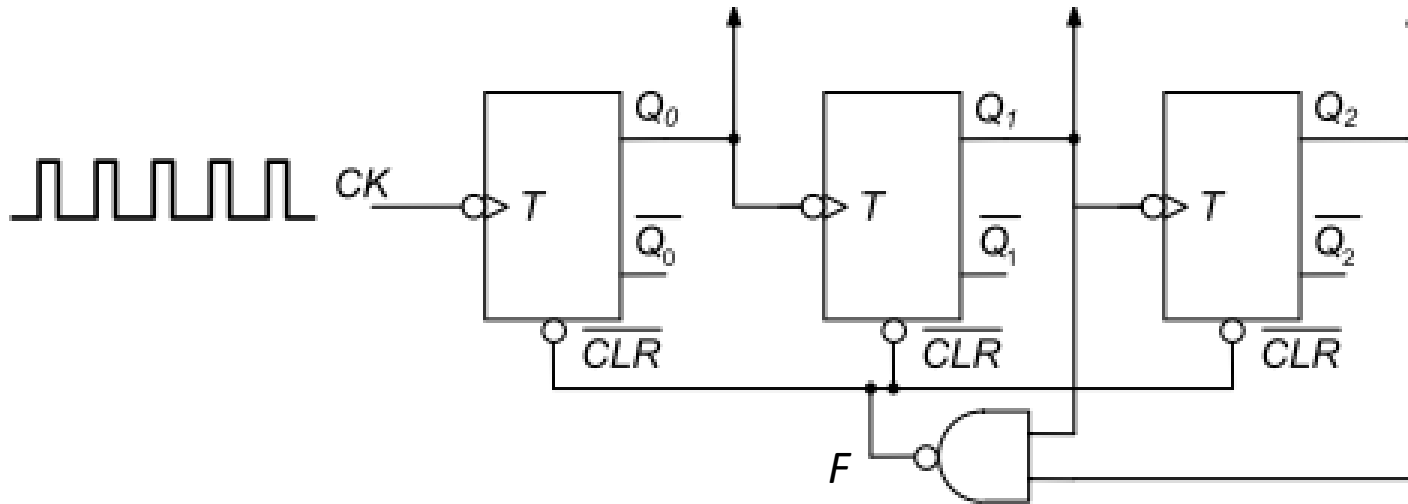


Exercício 55

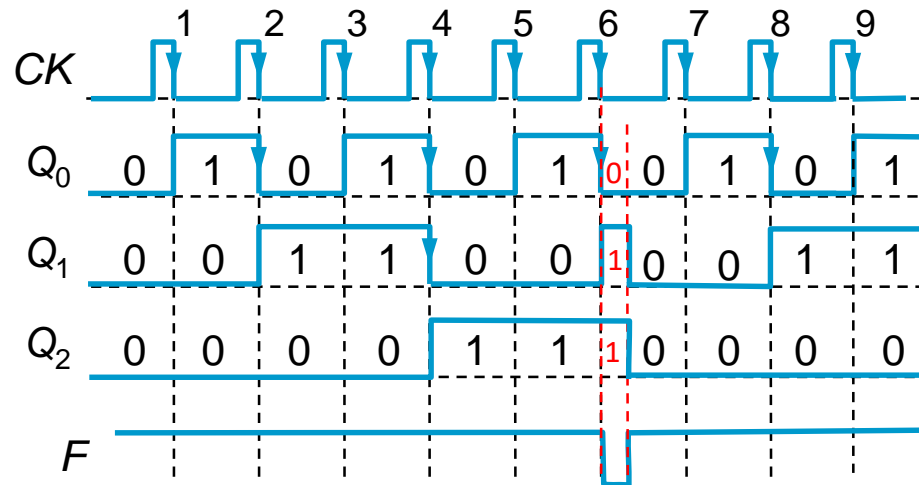
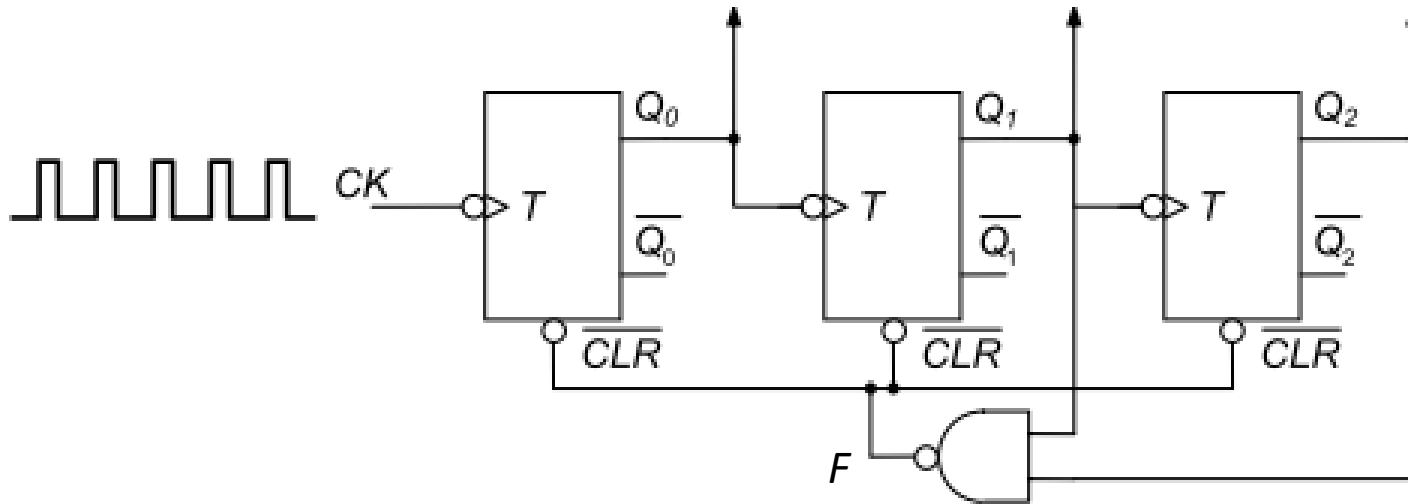


<i>J</i>	<i>K</i>	<i>Q</i> após um impulso <i>CK</i>
0	0	<i>Q</i> (mantém-se)
0	1	0 (“reset”)
1	0	1 (“set”)
1	1	\overline{Q} (comuta)

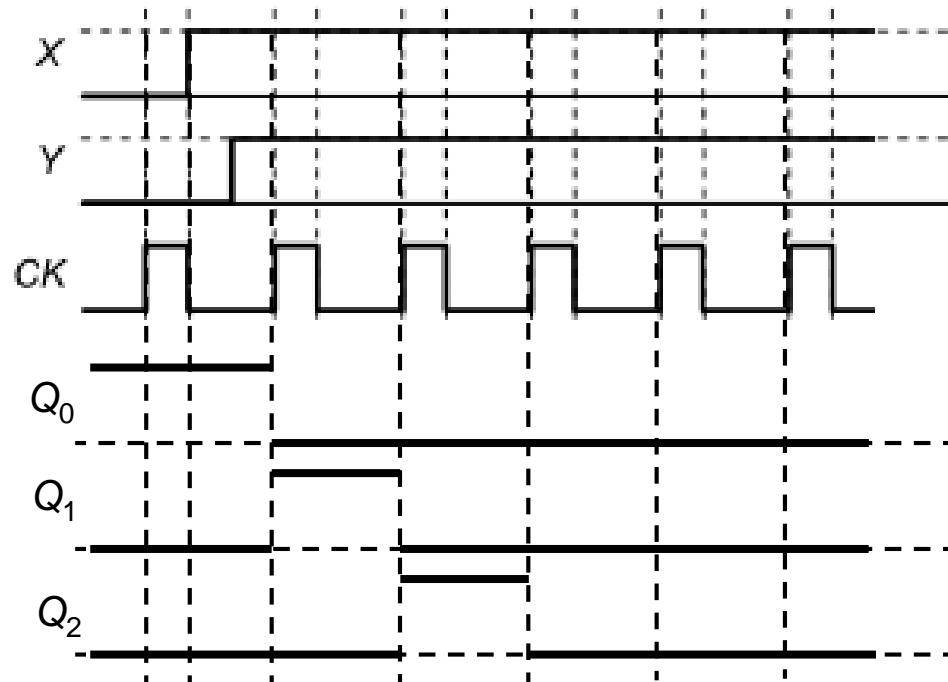
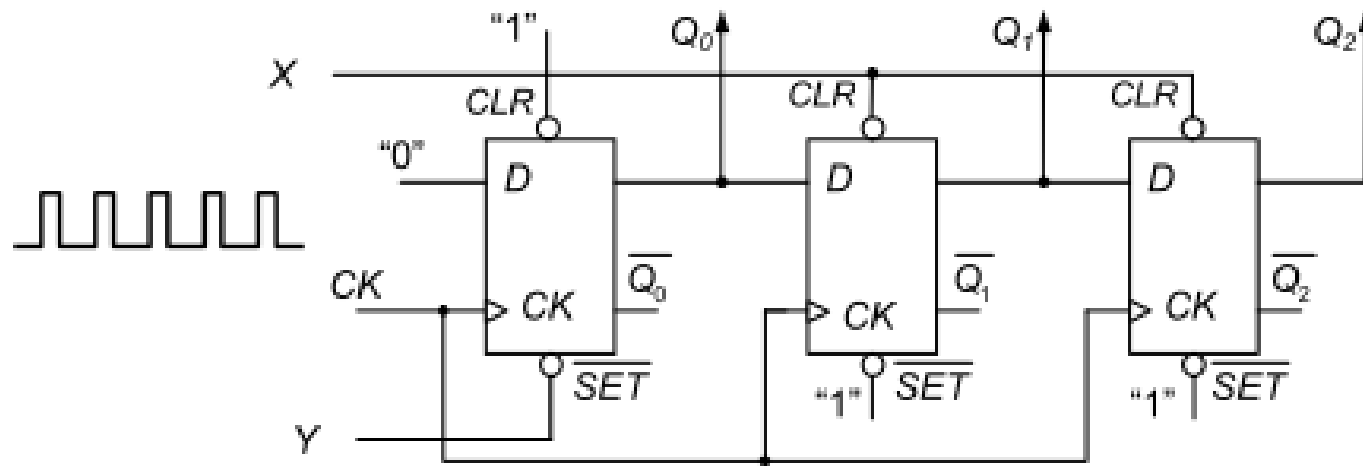
Exercício 58



Exercício 58



→ Contador crescente de 0 a 5



→ Registo de deslocamento (*shift-register*)