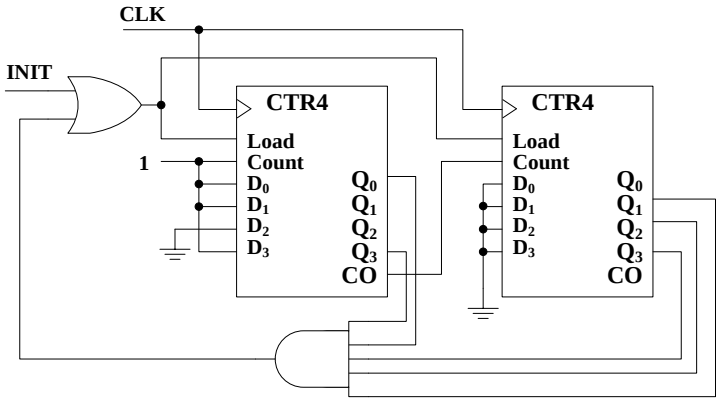
第六章布置习题参考解

6-6 解：

a) 1000，0100，0010，0001，1000

b) n 个状态

6-13 解：$(11)_{10}=(00001011)_2$, $(233)_{10}=(11101001)_2$



6-16 解：

根据计数顺序，可以列出状态表如下：

Present state			Next state		
A	B	C	A	B	C
0	0	0	0	1	0
0	0	1	0	1	1
0	1	0	0	0	1
0	1	1	1	0	0
1	0	0	1	1	0
1	0	1	1	1	1
1	1	0	1	0	1
1	1	1	0	0	0

根据此状态表，可以写出激励函数：

$D_A = A\overline{B} + A\overline{C} + \overline{A}BC$

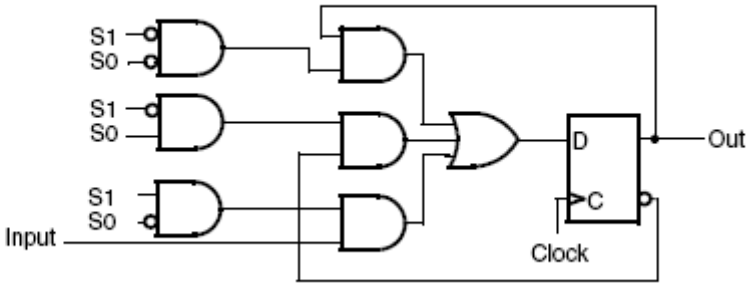
$D_B = \overline{B}$

$D_C = \overline{B}C + B\overline{C}$

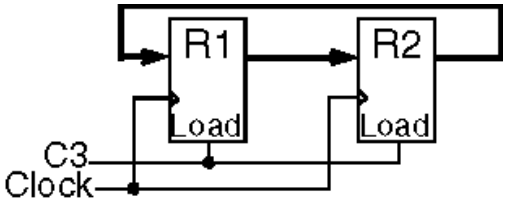
电路图略

6-17 解：

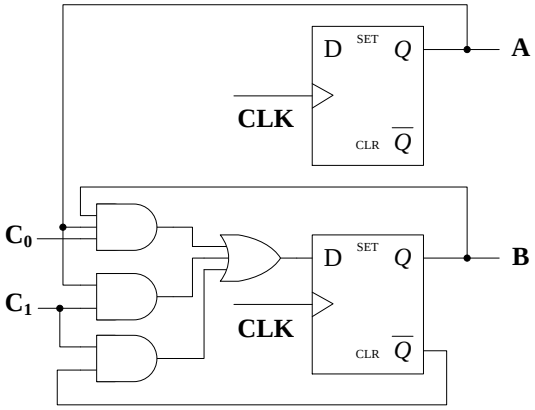
The basic cell of the register is as follows:



6-19

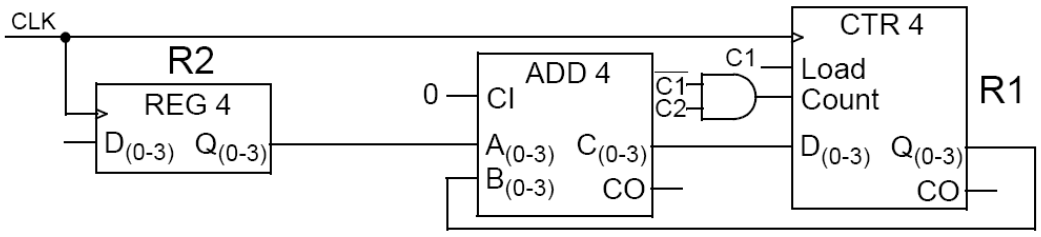


6-23

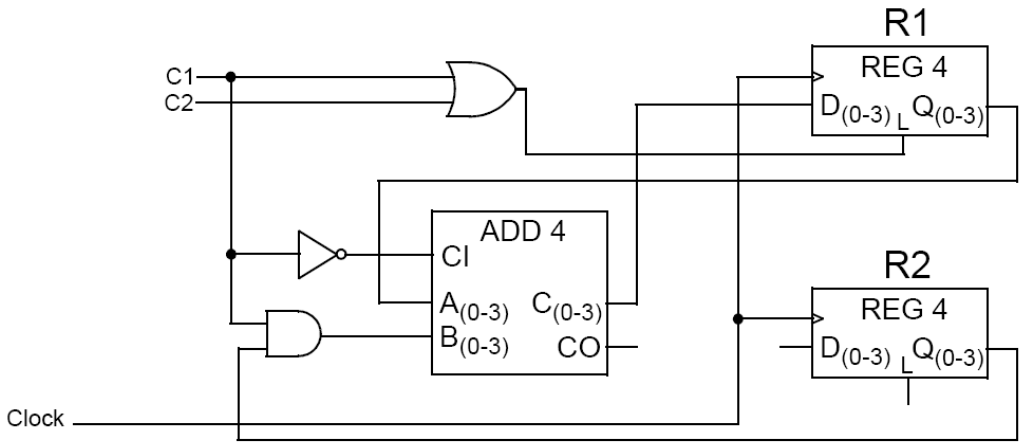


6-27

a)



b)



6-34

0101→1010→0101→1010→1101→0110→0011→0001→1000