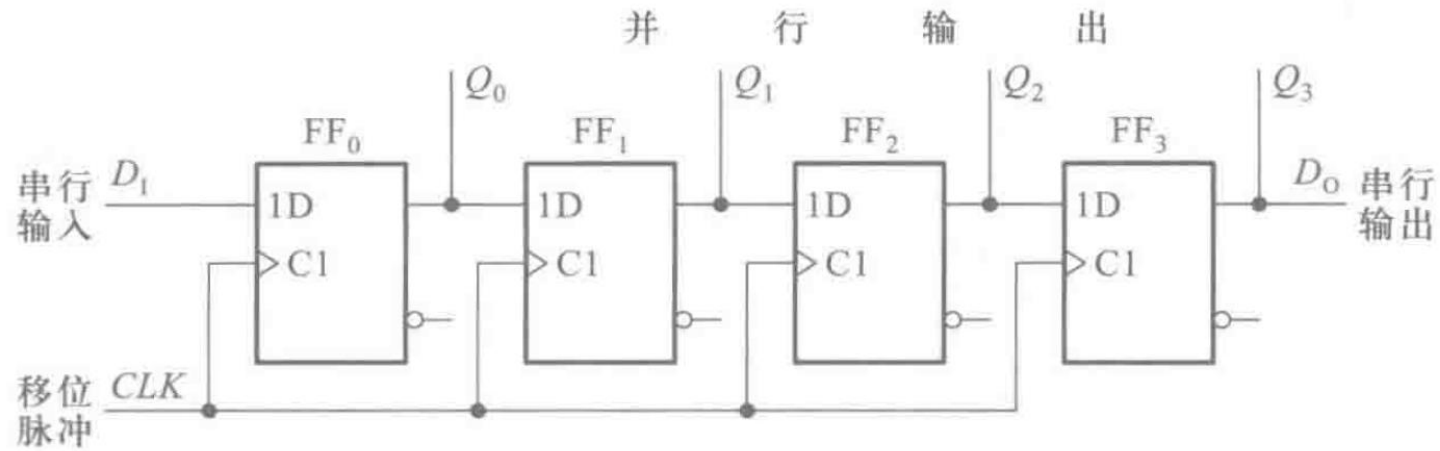


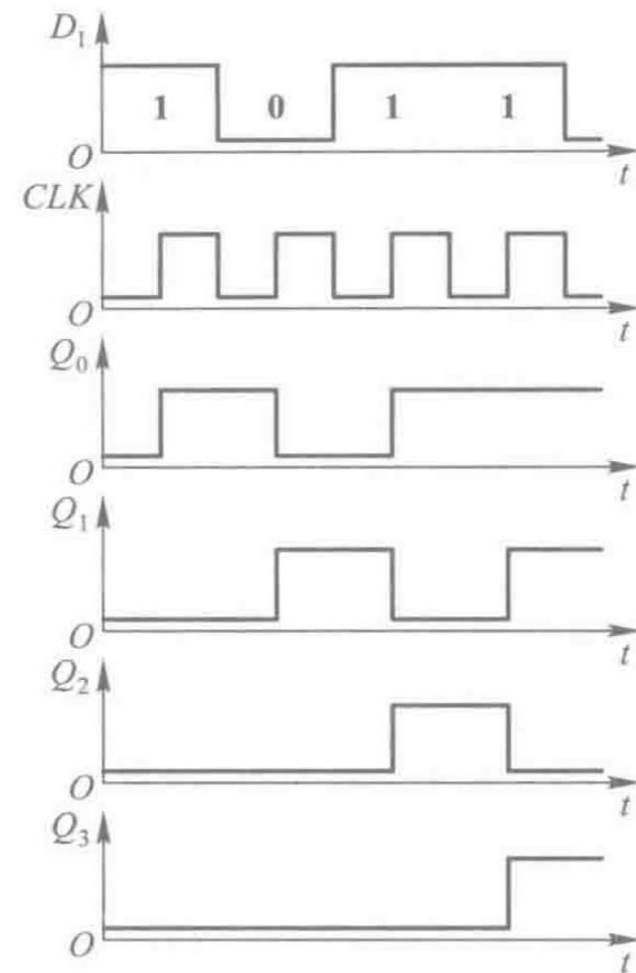
Shift Register



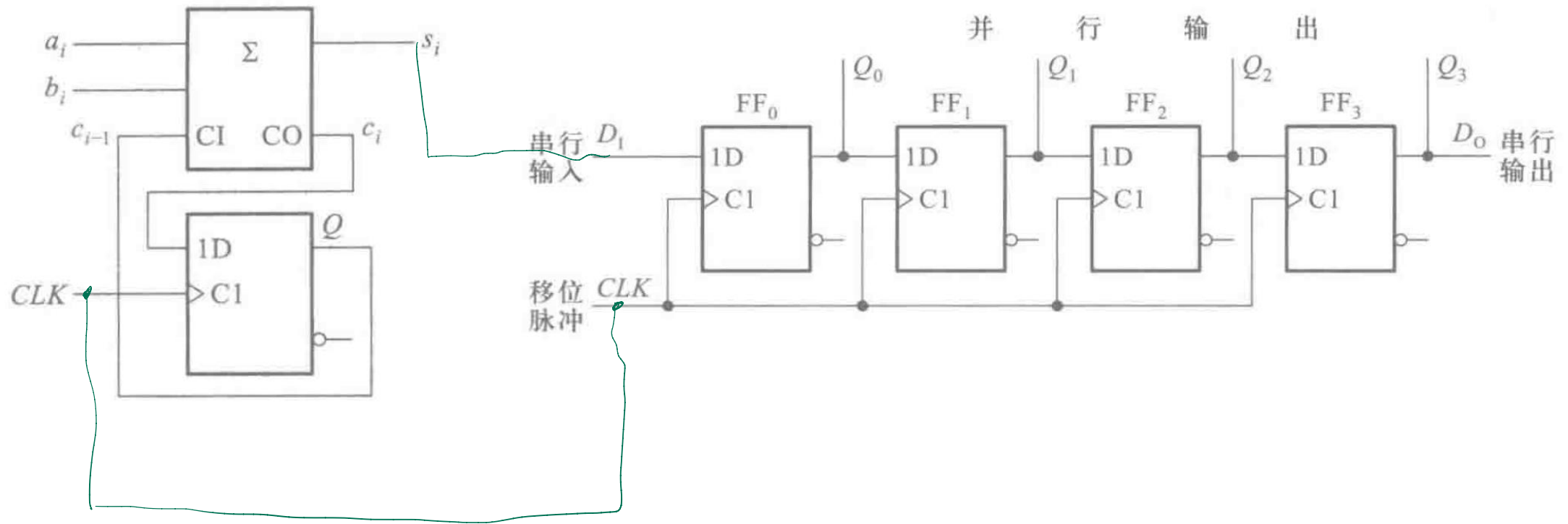
- Serial in/serial out
- Serial in/parallel out

Shift Register

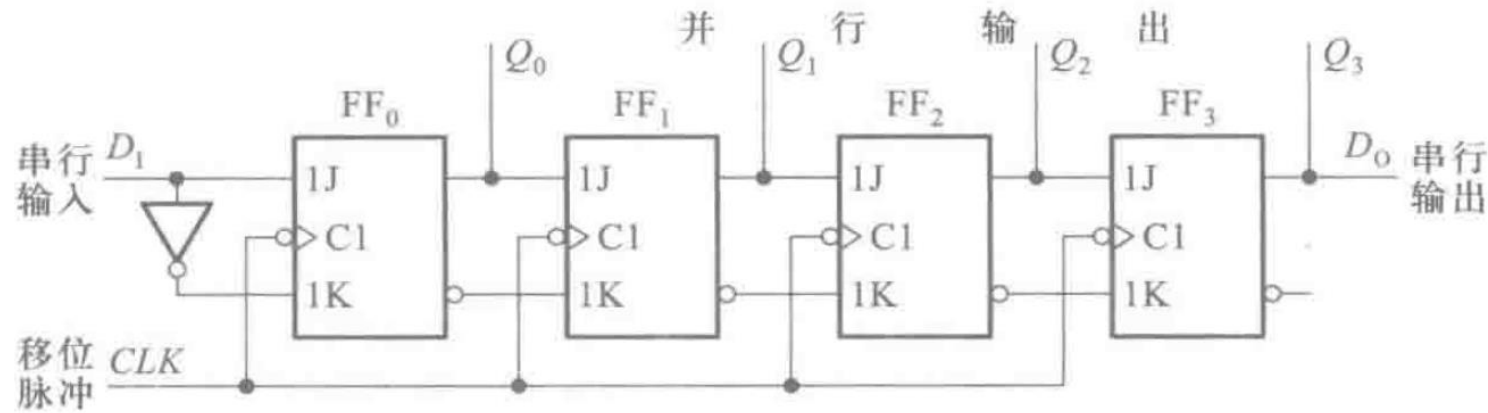
CLK 的顺序	输入 D_1	Q_0	Q_1	Q_2	Q_3
0	0	0	0	0	0
1	1	1	0	0	0
2	0	0	1	0	0
3	1	1	0	1	0
4	1	1	1	0	1



Adder Using Shift Register



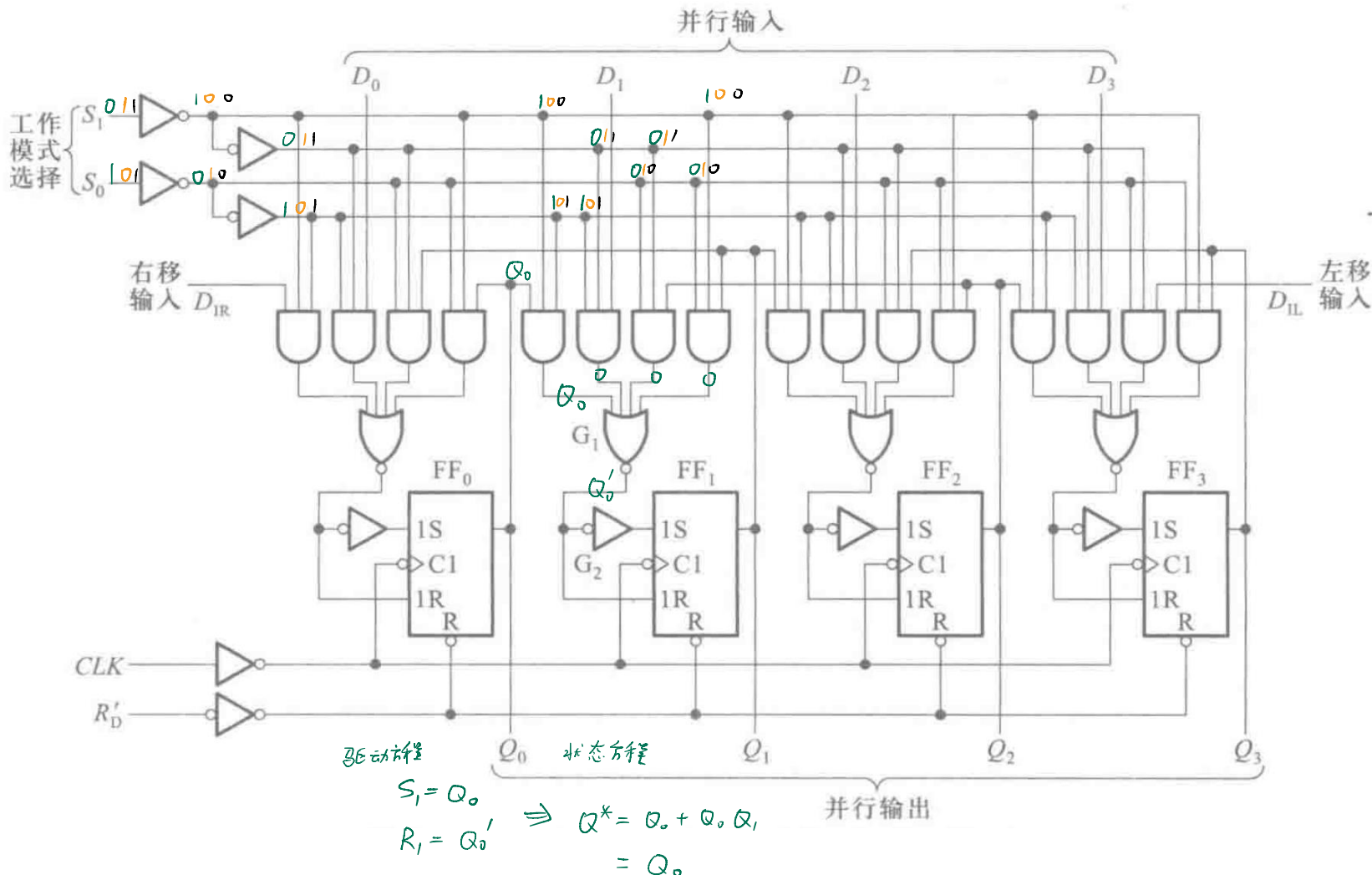
Shift Register using JK FF



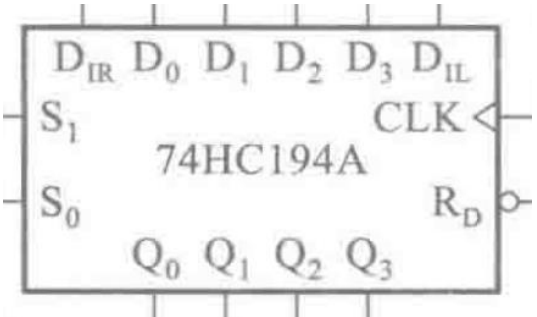
- Serial in/serial out
- Serial in/parallel out

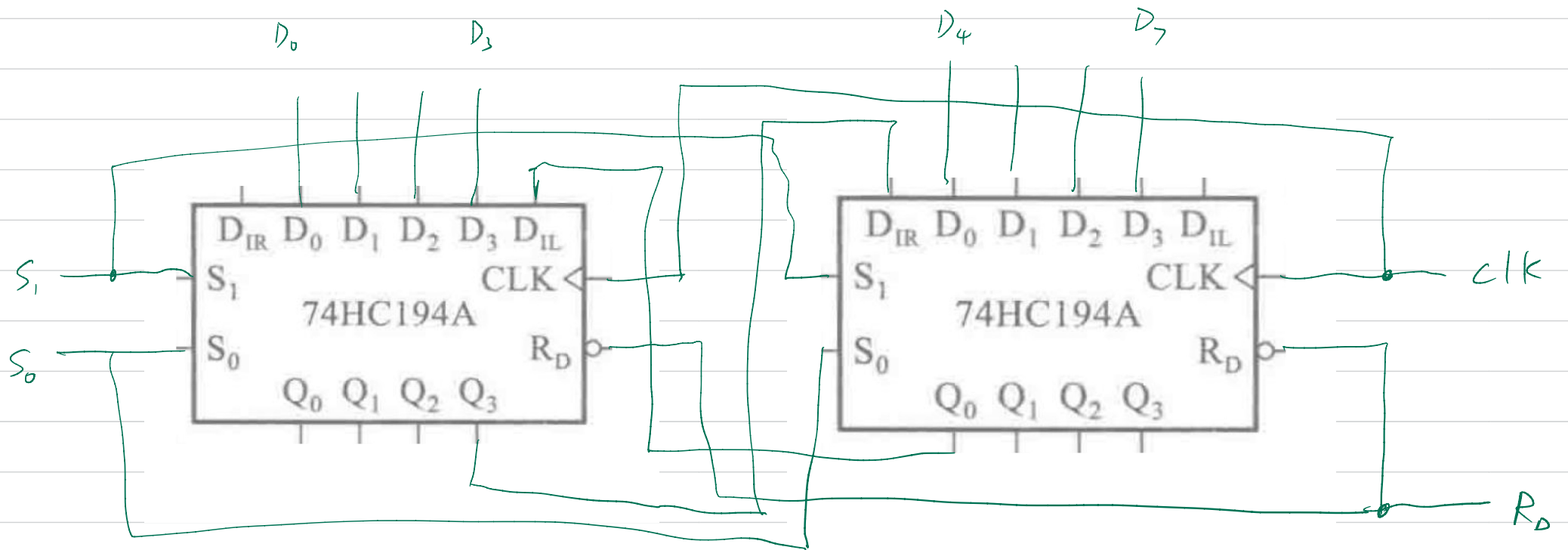
4 bit Shift Register – 74HC194A

- One also need shift left, shift right, parallel load and hold function



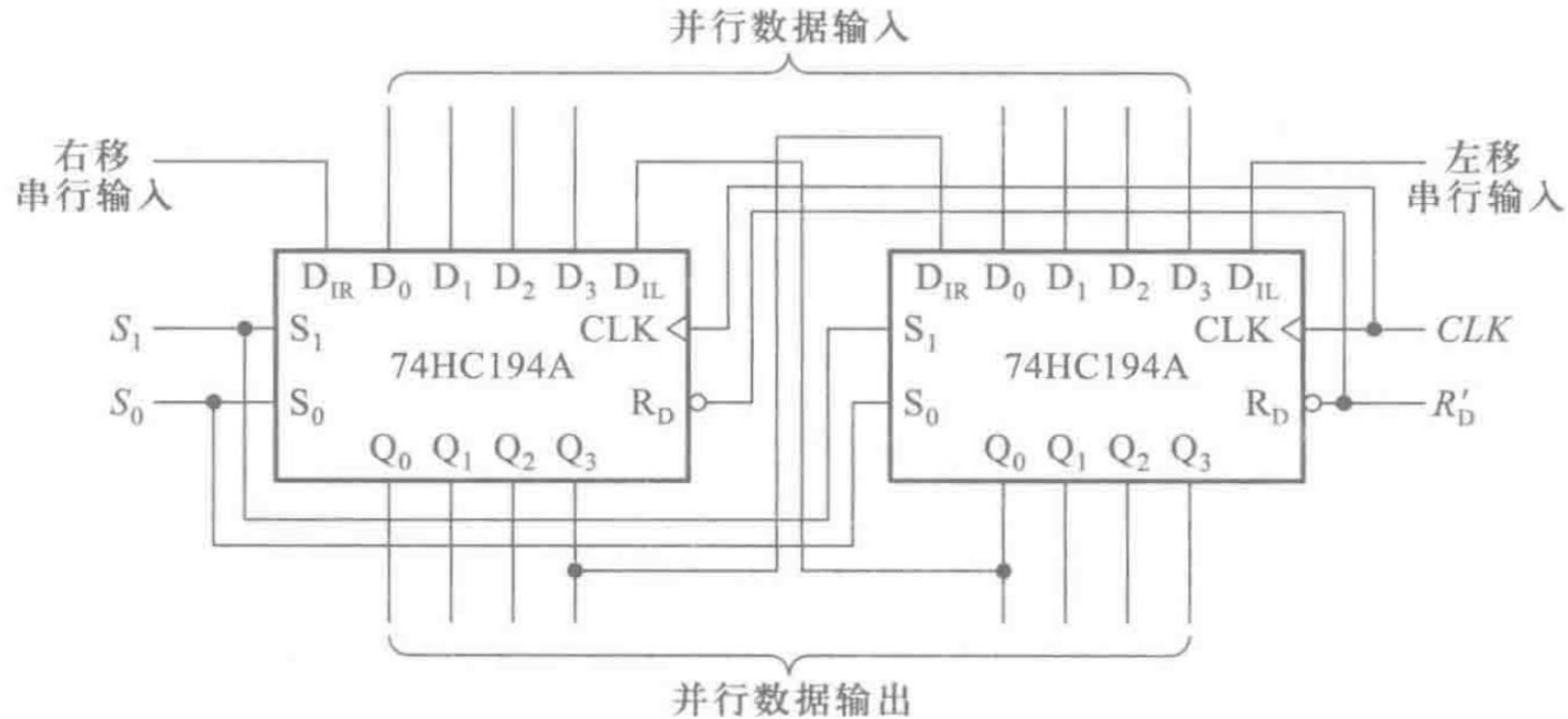
R_D'	S_1	S_0	工作状态
0	×	×	置零
1	0	0	保持
1	0	1	右移
1	1	0	左移
1	1	1	并行输入





8 bit Shift Register

- Use two 74HC194A to construct a 8 bit shift register



Reading materials

- Chapter 8 of Floyd book
- Section 6.3.1 of 阎石 book