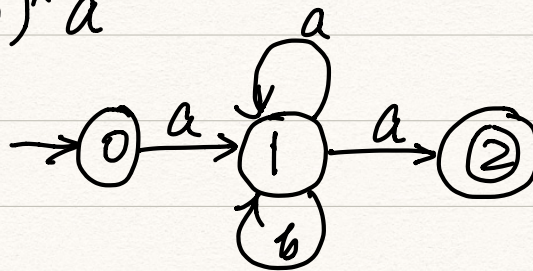
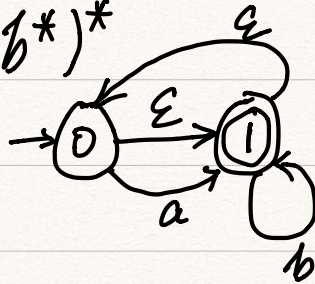


1. 为下列正则表达式设计 DFA/NFA

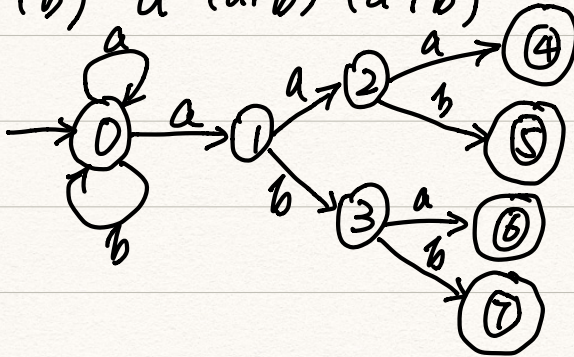
(1) $a(a|b)^*a$



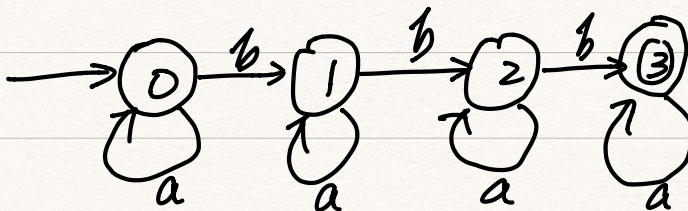
(2) $((\epsilon|a)b^*)^*$



(3) $(a|b)^*a(a|b)(a|b)$

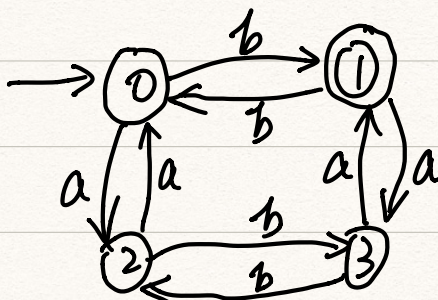


(4) $a^*ba^*ba^*ba^*$

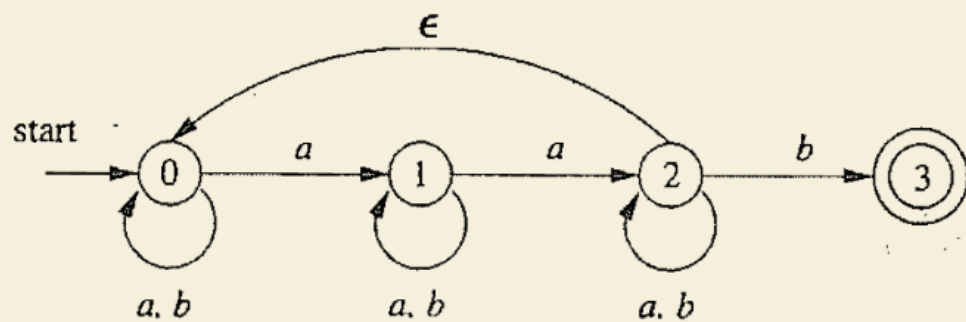


(5) 所有由偶数个 a 和奇数个 b 构成的串

$(aa)^*b(aa|bb)^*$

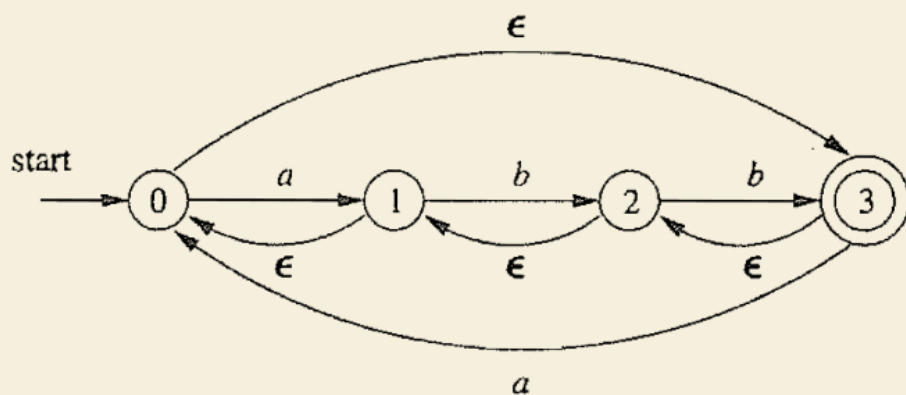


2. (1)



状态 输入	a	b	ε
0	0, 1	0	/
1	1, 2	1	/
2	2	2, 3	0
3	/	/	/

(2)



状态 输入	a	b	ε
0	1	/	3
1	/	2	0
2	/	3	1
3	0	/	2