

第 4 次作业

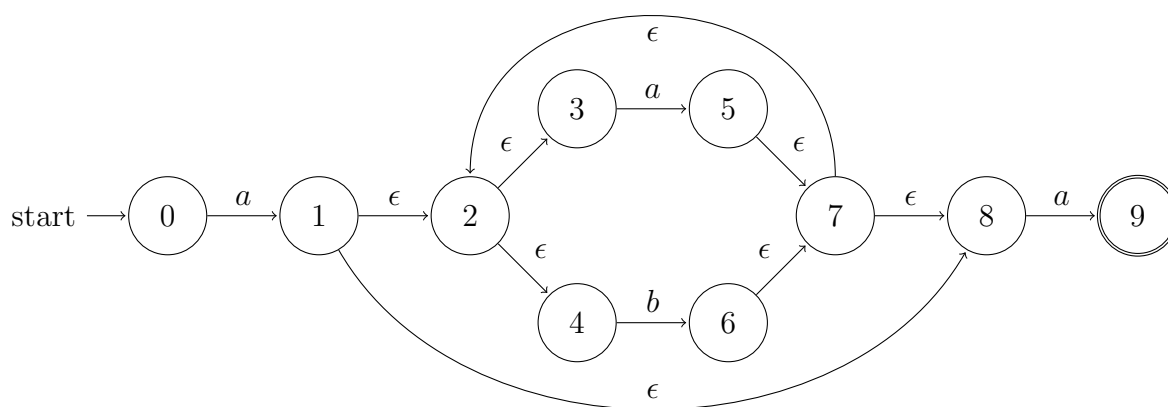
Log Creative

2021 年 6 月 28 日

1 为下列正则表达式或语言设计一个DFA或NFA

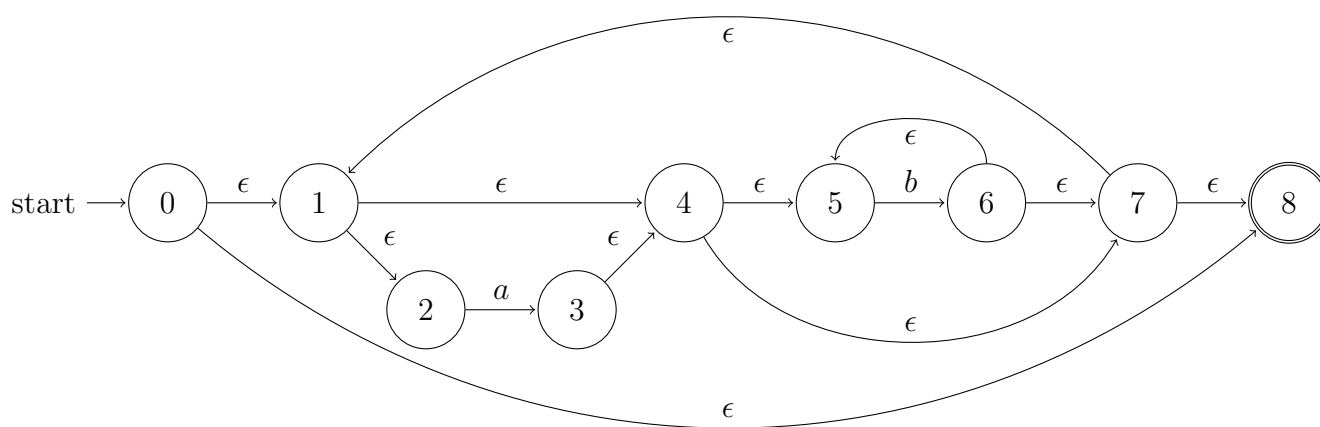
1) $a(a|b)^*a$

答:



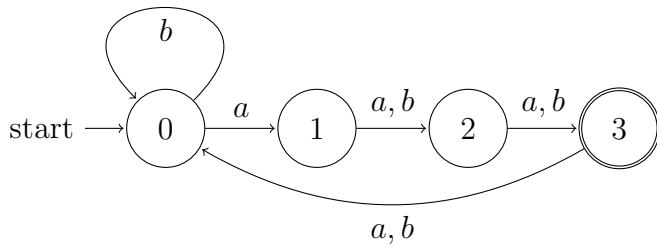
2) $((\epsilon|a)b^*)^*$

答:



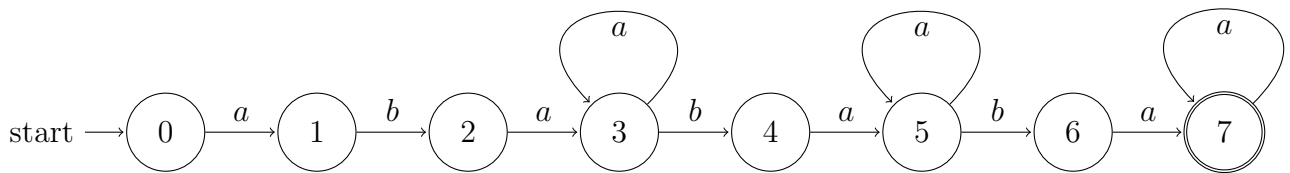
3) $(a|b)^*a(a|b)(a|b)$

答:



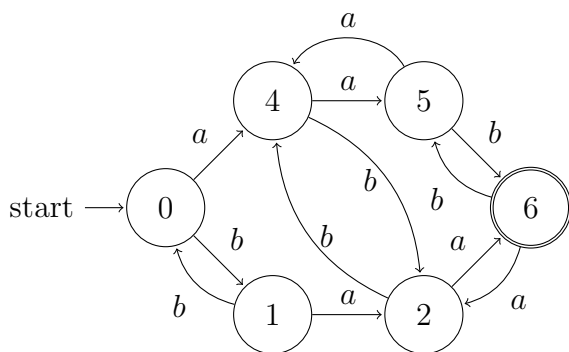
4) $a^*ba^*ba^*ba^*$

答:

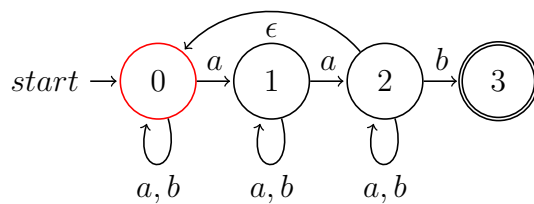


5) 所有由偶数个a和奇数个b构成的串

答:

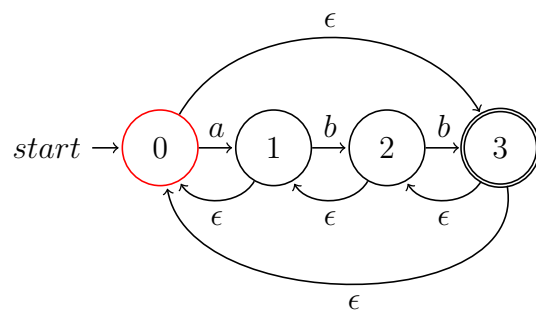


2 给出下列两个NFA的转换表:



1)

状态	a	b	ϵ
0	{0,1}	{0}	\emptyset
1	{1,2}	{1}	\emptyset
2	{2}	{2,3}	{0}
3	\emptyset	\emptyset	\emptyset



2)

状态	a	b	ϵ
0	$\{1\}$	\emptyset	$\{3\}$
1	\emptyset	$\{2\}$	$\{0\}$
2	\emptyset	$\{3\}$	$\{1\}$
3	\emptyset	\emptyset	$\{0\}$