

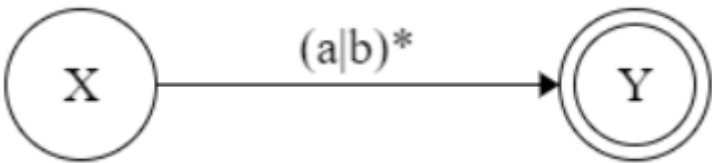
RE&FA

王贤义 计算机基地班 320210931221

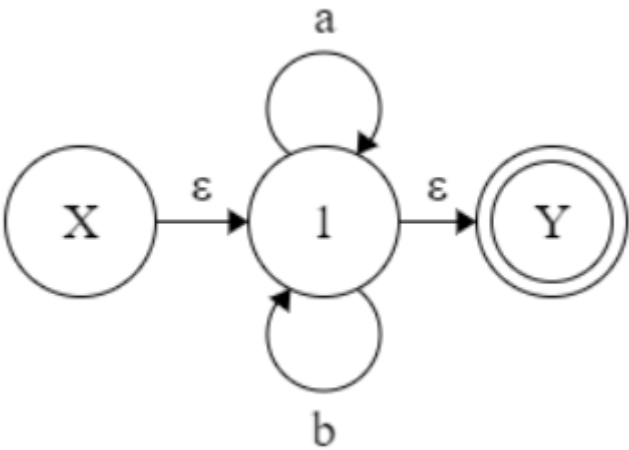
利用RE与FA的等价关系证明： $\Sigma=\{a,b\}$ 上， $(a|b)^*$ 与 $(a^* | b^*)^*$ 等价。

$(a|b)^*$

构造初始化



构造NFA



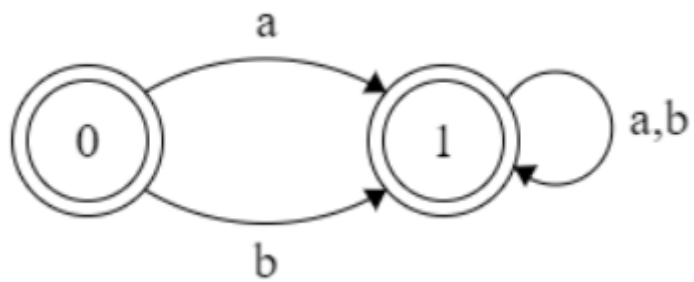
确定化

I	I_a	I_b
$\{X,1,Y\}$	$\{1,Y\}$	$\{1,Y\}$
$\{1,Y\}$	$\{1,Y\}$	$\{1,Y\}$

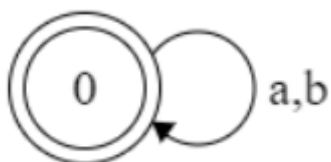
重新编号的状态矩阵

s	a	b
0	1	1
1	1	1

转成DFA

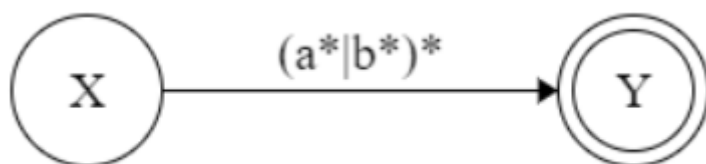


最简DFA

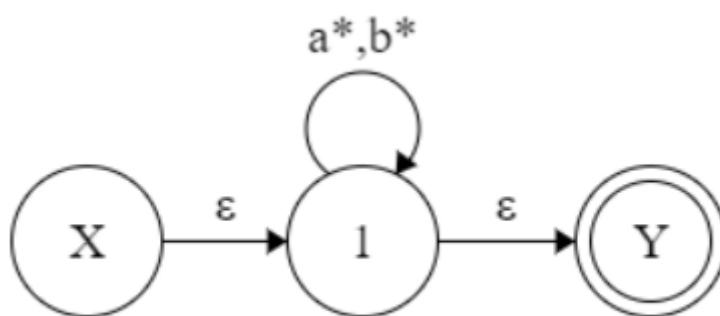


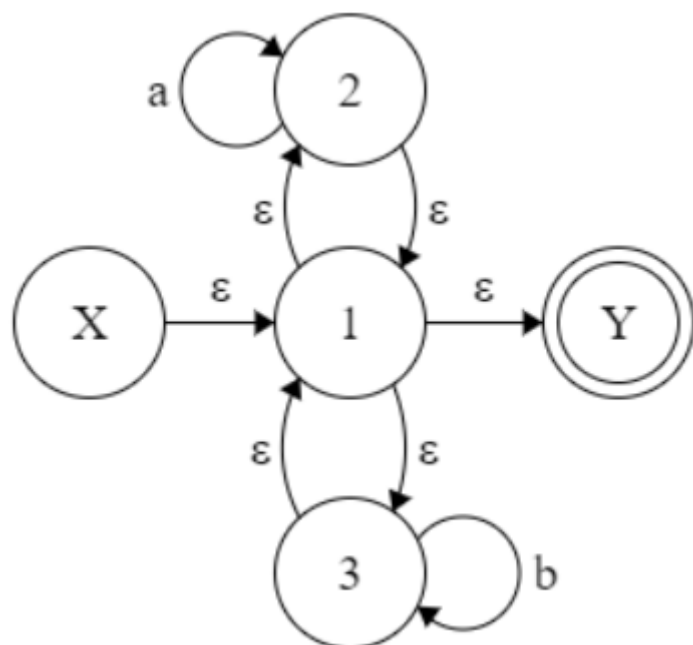
$(a^* | b^*)^*$

构造初始化



构造NFA





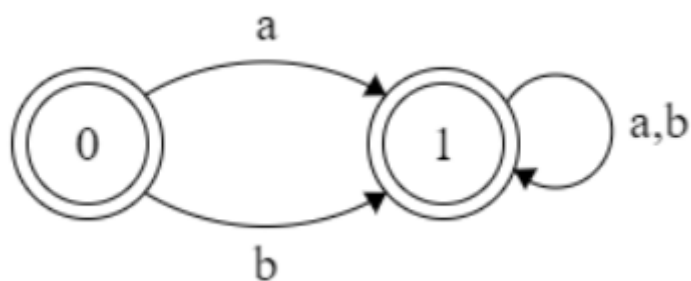
确定化

I	I_a	I_b
$\{X, 1, 2, 3, Y\}$	$\{1, 2, 3, Y\}$	$\{1, 2, 3, Y\}$
$\{1, 2, 3, Y\}$	$\{1, 2, 3, Y\}$	$\{1, 2, 3, Y\}$

重新编号的状态矩阵

s	a	b
0	1	1
1	1	1

转成DFA



最简DFA

