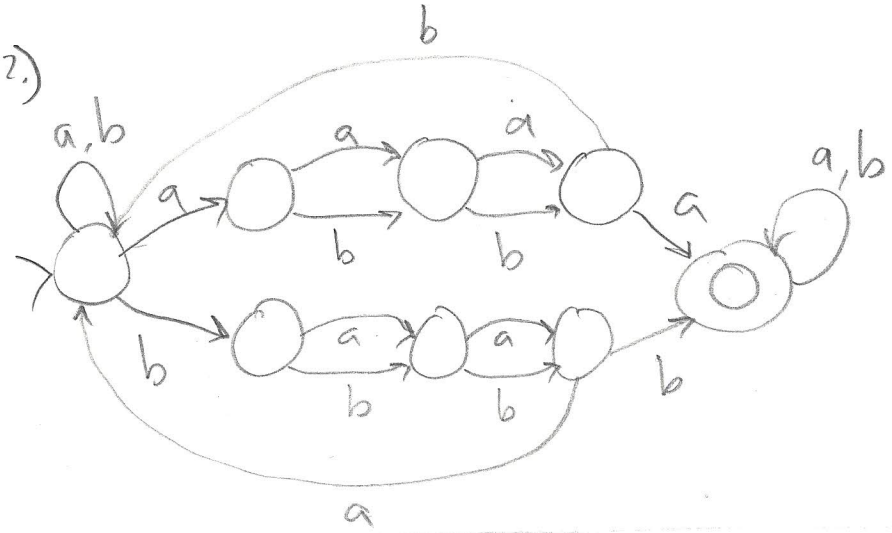
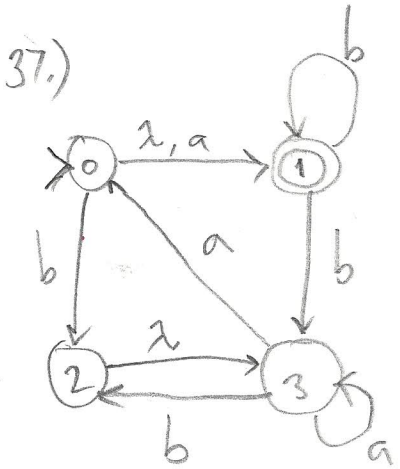
CNC 2012
Formal Languages
Professor Sherri Shulman
Assignment 9
Owen Myer

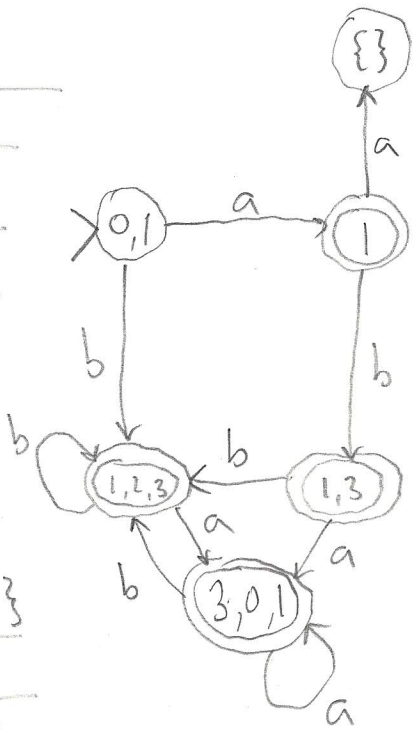
32.)



37.)



δ	a	b	λ
0	1	2	1
1	×	1,3	×
2	×	×	3
3	3,0	2	×



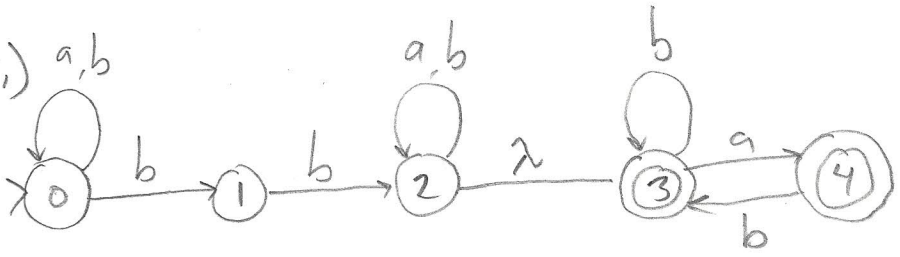
λ-c

0	{0} ∪ {1} : {0,1}
1	{1} ∪ {} : {1}
2	{2} ∪ {3} : {2,3}
3	{3} ∪ {} : {3}

t	a	b
0	{1}	{1,2,3}
1	{}	{1,3}
2	{3,0,1}	{2,3}
3	{3,0,1}	{2,3}

$$(a|b)\,|\,((b|abb|abaa^*b)(b|aa^*b)^*)\,|\,((bb^*a|aba)(a|bb^*a)^*)$$

38.)



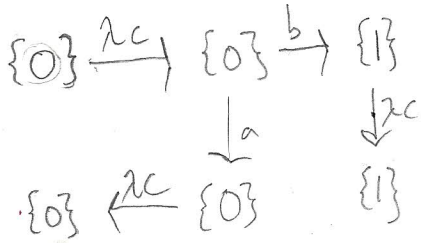
λ-c

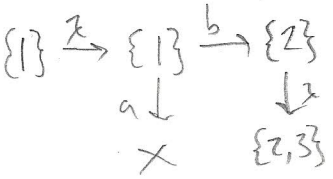
0	{0}
1	{1}
2	{2,3}
3	{3}
4	{4}

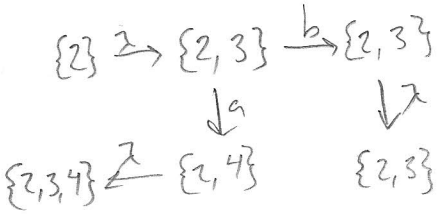
explicit arrows

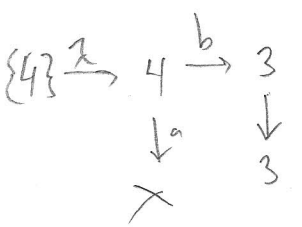
δ	a	b	λ
0	0	1	x
1	x	2	x
2	2	2	3
3	4	3	x
4	x	3	x

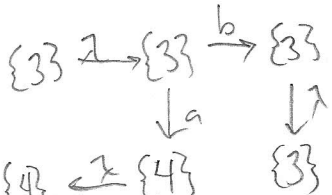
t	a	b
0	{0}	1
1	{}	{2,3}
2	{2,3,4}	{2,3}
3	{4}	{3}
4	{}	{3}

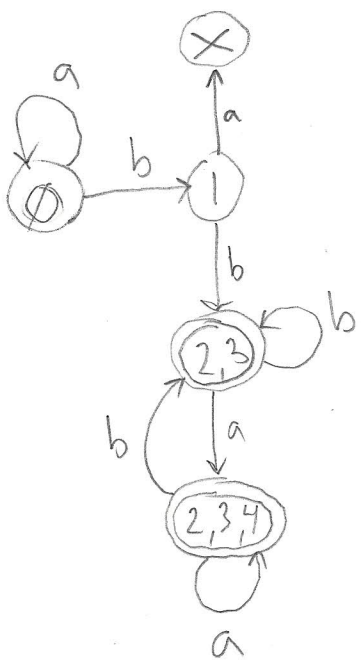












((a*bb)(b|aa*b)*)|

((a*bbb*a)(a|bb*a)*)