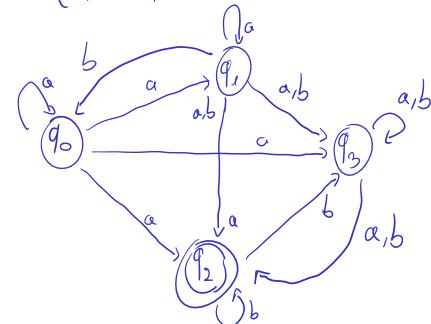
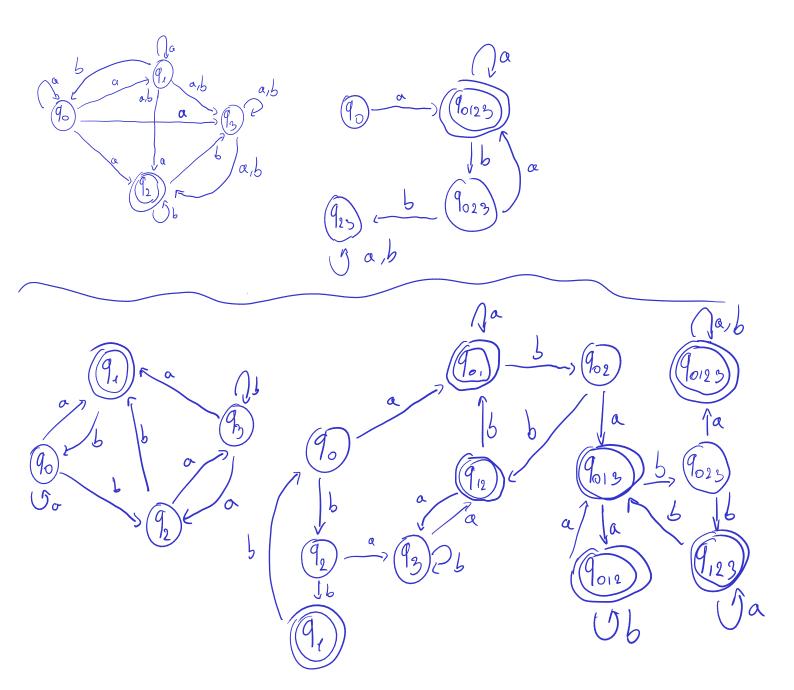


E NFA									
_		a	6	3					
-	Ø	0,1,2	$\phi$	6					
	1	1	Ö	1,2,3					
	2	Ø	3	2					
	3	3	$\phi$	2,3					

NF	=A)	α	6	1
	0	0,1,2,3		
	1	1,2,3	0,2,3	
-	2	φ.	2,3	
	3	2,3	2,3	

NFA	a	6	
-> 0	0,1,2,3	ø	
1	1,2,3	0,2,3	
× 2	Ø.	2,3	
3	12,3	12,3	





$$\int S = aS + bA_{2} + a$$

$$(A_{1} = bS + aA_{2} + a = b)$$

$$A_{2} = aA_{2} + bA_{1} + b$$

$$A_{1} = bS + aa^{*}(bA_{1}+b)$$

$$A_{1} = bS + aa^{*}(bA_{1}+b) + a$$

$$A_{1} = (a+b)^{*}(bS + a+b+a) \xrightarrow{A_{2}} A_{2} = a^{*}(b(a+b)^{*}(bS + a+b+a) + b)$$

$$(a+b)^{*} = a^{*}(b(a+b)^{*}bS + b(a+b)^{*}ab)$$

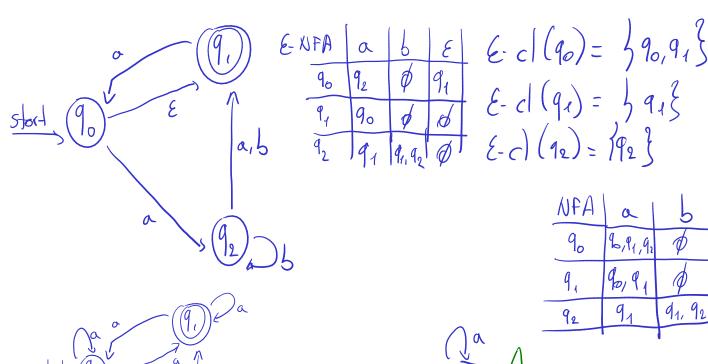
$$(ab)^{*}a^{+}b = (atb)^{+}$$

$$= a^{*}(b(a+b)^{*}bS + b(a+b)^{*}atb) + b(a+b)^{*}a + b)$$

$$S = aS + ba^{*} [b(a^{+}b)^{*}bS + (a^{+}b)^{*} + b(a^{+}b)^{*}a + b]$$

$$= (a + ba^{*}b(a^{+}b)^{*}b)^{*} [ba^{*}(a^{+}b)^{+} + b(a^{+}b)^{*}a + b]^{2} + a$$

Stort S 
$$A_1$$
 S  $A_2$   $A_2$   $A_3$   $A_4$   $A_5$   $A_6$   $A_6$ 



S-> aAnla A, -> aA, 16A2 a16 A2->6A2/aA3/a/b As Ta Arta

$$S = A_3$$
  $\int S = aA_1 + a$   
 $= 15$   $A_1 = aA_1 + bA_2 + a + b$   
 $A_2 = bA_2 + aS + a + b$   
 $bb^{*}(aS + a + b) = b^{*}(aS + a + b)$ 

 $A_{2} = b^* (aS + a + b)$  $A_1 = aA_1 + b^+(aS + a + b) + a + b = a^*(b^+(aS + a + b) + a + b)$ 

$$A_1 = a + b^+(aS + a + b) + a^*a + a^*b$$

$$S = a \left[ a^{*}b^{+} (aS + a + b) + a^{+} + a^{*}b \right] + a$$

$$= a^{+}b^{+} (aS + a + b) + aa^{+} + aa^{*}b^{+} + a$$

$$= (a^{+}b^{+}a)^{*} (a^{+}b^{+}a + a^{+}b^{+}b + aa^{+} + a^{+}b^{+}a)$$

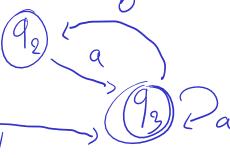
$$= (a^{+}b^{+}a)^{*} (a^{+}b^{+}a + a^{+}b^{+}b + aa^{+} + a^{+}b^{+}a)$$

	91	q	93	94	96	96	97	98
a	9,	93	94	93	94	9,c	9 <sub>E</sub>	93
 5	94	9,	92	95	96	95	94	9,

 $(q_4, q_3)_{1}$   $(q_2, q_5)_{2}$   $(q_{1}, 6)_{2}$   $(q_{2}, q_{3})_{3}$   $(q_{5}, q_{8})_{4}$ 

$$92 = 95 = 98 = 992$$
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Stort, 
$$9_1$$



$$F = \{94, 96\}$$

9,	X		_		
92	X				
93	X	X	X		
94	X	X	X	X	
95	X	X	X	X	(1,2)
	90	9,	9,	93	94

	011	0,2	11,2	023	1,2	12,3	410	1
α	1,4	116	418	114	414	514	41T	
6	2,3	2,3	3,3	2,4	3,4	34	1.5	