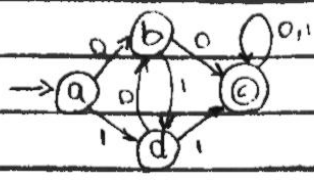


Lista 3 - LFA

Nome: Gustavo de Jesus Xavier

1)



δ	0	1
a	b	d
b	c	d
c	c	c
d	b	c

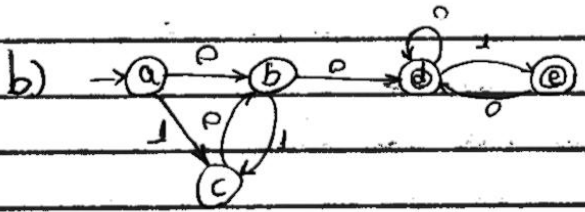
$G_1 = \{d\} \rightarrow$ Estado Final
 $G_2 = \{a, b, c\}$

δ	0	1
a	G_2	G_1
b	G_2	G_1
c	G_2	G_2
d	G_2	G_2

$G_1 = \{d\}$
 $G_2 = \{a, b\}$
 $G_3 = \{c\}$

$G_1 = \{d\}$
 $G_2 = \{a\}$
 $G_3 = \{c\}$
 $G_4 = \{d\}$

A AFD já é mínima



δ	0	1
a	b	c
b	d	c
c	b	t
d	d	e
e	d	t
t	t	t

$G_1 = \{d, e\}$
 $G_2 = \{a, b, c, t\}$

t \rightarrow estado criado

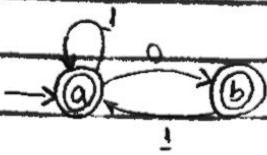
δ	0	1
a	G_2	G_2
b	G_1	G_2
c	G_2	G_2
d	G_1	G_1
e	G_1	G_2
t	G_2	G_2

$G_1 = \{d\}$
 $G_2 = \{a, c, t\}$
 $G_3 = \{e\}$
 $G_4 = \{b\}$

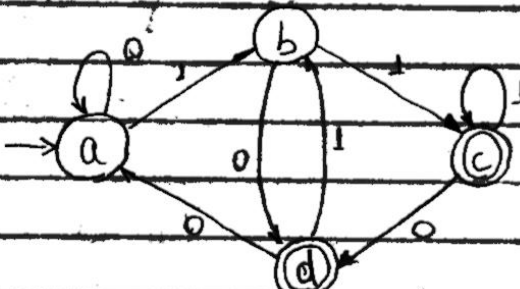
δ	0	1
a	G_4	G_2
b	G_1	G_2
c	G_1	G_2
d	G_1	G_2
e	G_1	G_2
t	G_2	G_2

$G_1 = \{d\}$
 $G_2 = \{a, c\}$
 $G_3 = \{e\}$
 $G_4 = \{b\}$
 $G_5 = \{t\}$

δ	0	1	$G_1 = \{d\}, G_2 = \{a\}, G_3 = \{e\}, G_4 = \{b\}, G_5 = \{f\}, G_6 = \{c\}$
a	G_4	G_2	0 AFD já é mínimo
e	G_4	G_6	

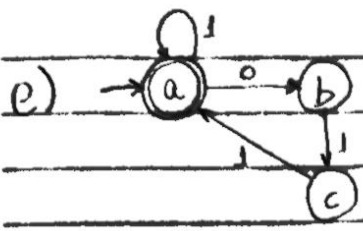
c)		δ	0	1	$G_1 = \{a, b\} \rightarrow$ estado final
		a	b	a	$G_2 = \{e\}$
		b	e	a	
		e	e	e	estado criado

δ	0	1	
a	G_1	G_1	$G_1 = \{a\}$ 0 AFD já é mínimo
b	G_2	G_1	$G_2 = \{b\}$
e	G_2	G_2	$G_2 = \{e\}$

d)		δ	0	1	
		a	a	b	$G_1 = \{c, d\}$
		b	d	c	$G_2 = \{a, b\}$
		c	d	c	
		d	a	b	

δ	0	1	0	1
a	G_2	G_2	G_2	G_3
b	G_1	G_1	G_2	G_1
c	G_1	G_1	G_2	G_1
d	G_2	G_2	G_2	G_3

$G_1 = \{c\}$	$G_1 = \{c\}$	} 0 AFD já é mínimo
$G_2 = \{d\}$	$G_2 = \{d\}$	
$G_3 = \{a, b\}$	$G_3 = \{a\}$	
	$G_4 = \{b\}$	



δ	0	1
a	b	a
b	e	c
c	e	a
e	e	e

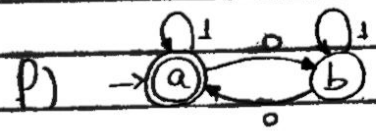
$G_1 = \{a\}$
 $G_2 = \{b, c, e\}$

δ	0	1	0	1
a	G_2	G_1	G_2	G_1
b	G_2	G_2	G_2	G_3
c	G_2	G_1	G_2	G_1
e	G_2	G_2	G_2	G_2

$G_1 = \{a\}$
 $G_2 = \{b\}$
 $G_3 = \{c\}$
 $G_4 = \{d\}$

0 AFD ja e' minimo

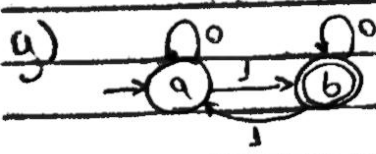
$G_2 = \{b, e\}$
 $G_2 = \{b\}$
 $G_3 = \{c\}$
 $G_3 = \{c\}$
 $G_4 = \{e\}$



δ	0	1
a	b	a
b	a	b

$G_1 = \{a\}$
 $G_2 = \{b\}$

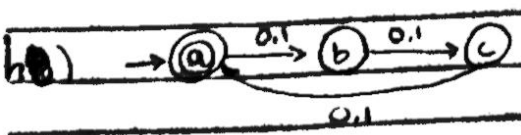
0 AFD ja e' minimo



δ	0	1
a	a	b
b	b	a

$G_1 = \{a\}$
 $G_2 = \{b\}$

0 AFD ja e' minimo



δ	0	1	0	1
a	b	b	G_2	G_2
b	c	c	G_2	G_2
c	a	a	G_1	G_1

$G_1 = \{a\}$
 $G_2 = \{b, c\}$
 $G_2 = \{b\}$
 $G_3 = \{c\}$

ja e' minimo