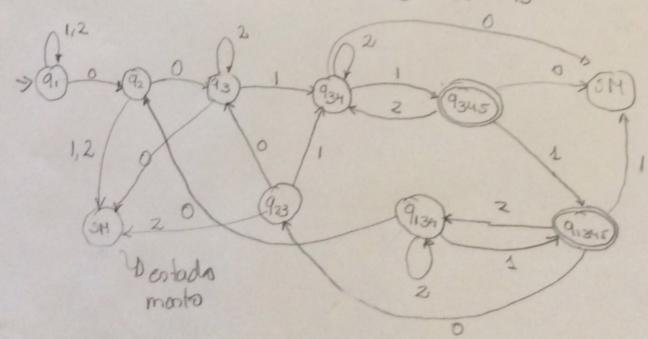
$$\Sigma = \{0, 1, 2\}$$
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a) L= 10011, 00111, 1220011, 11200211, 1100221, 000/

b) induterministico a deferministico

	0	1	2	
91	92	91	91	
92	93	-	-	
93	1-	934	93	
94	-	945	94	
95	-	91	91	

1	0 1	2	
91	92 9,	91	
92	93 -	-	
93	- 931	94 93	
9394	- 939	495 9394	
939495	- q,	939495	919394
91345	9293	91345	9134
9134	92	91345	9134
923	93	934	93



Sur

Paro base

Considerda menor cadeia nest caso su= E

W= & \{(9, E) = 00, w= 0\} W= Q , Q = Z \w = \{\w\| = 0\}

Hipotesis

Dadio una cadeia de I w'I = n, tenho que o resentados a ser provado se unifica que os estados ostas como interpretação correcta para todos

§ (90, w) = [90, 92, 93... 4?]

Passo Inductivo

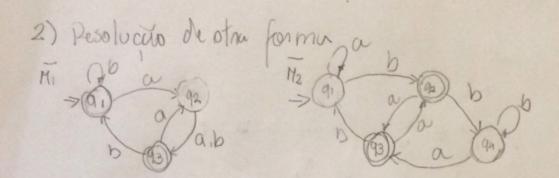
considero uma cadera de n+2 assum w=wa pa=10,2124

onde |w|=n e |w|=n+1 e a hipotesis de indução se

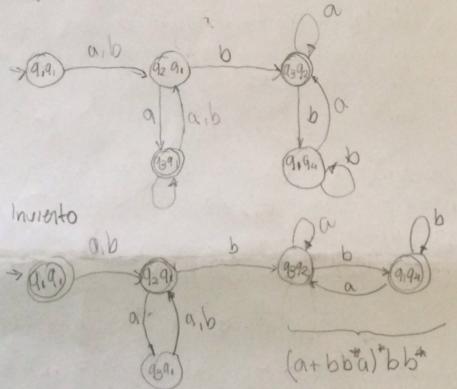
venifica para todo. w'

(g(a,w)= f(a,w'a)=18(8(a,w');a)

.. A hipotosis é verdadeixa



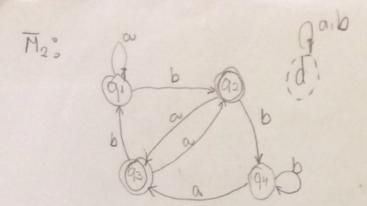
a) Construs un automato L(M1) n L(M2) L(M1) n L(M2) = L(M1) U L(M3)



E+(a+b)[a(a+b)+b.7a+bbta)*bbt]

HANNZ = (MAUMZ) My No inverso Acerta (M2) = L Accita (Mg) = L Aceita (Ms) = iejeita (Ms) Teorema: hemos regular en las é

M1 = (Z, Q0, l, 90, F0) M1 = (2,Q1,8,9,F1) Q1 = Qouldy F. = Q1-F0 se rão é definido glava) taezniqeQo > 8'(g,a)=d

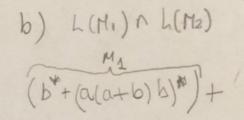


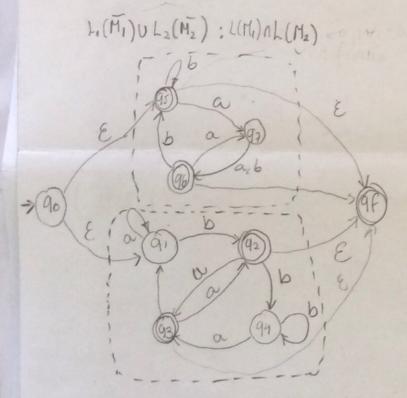
MIN M2 ?

Li(M1) n Li(M2) = (Li(M1) U L2(M2))

Le e L2 sais Regulares entas

a interseção é fechada





3) L= 10" bn+mem/n,m>04

1) L= 1 E, abbc, aabbbc, aabbbbcc, aaabbbbbcc, aaabbbbbbccc

b) Gelonteonema do Bombamento

km que complir:

k cte we L / IWI > k e posso

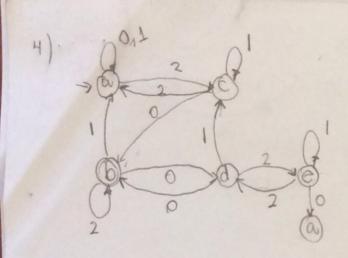
W = xy Z que aumpla:

a. y = E y > s

b. Ixxi ≤ n

c. + i > 0 xy Z eL

o Não c Rgukar



•
$$(a,d)$$

 $(a,0)=\alpha (a,1)=\alpha (a,2)=0$
 $(a,0)=b (b,1)=0 (d,2)=0$
 $[(a,c)(a,d)]$
 $[(c,e)(a,d)]$

$$(a_1c) = a (a_11) = a (a_12) = c (c,0) = b (c,1) = c (c,2) = a$$

marcan a lista em cabeçada por o par (a,c)

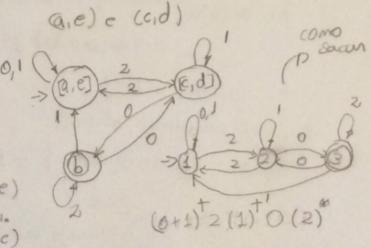
(a,d) marcado?

-
$$(c,d)$$

 $(c,1) = c$ $(c,0) = b$ $(c,2) = a$
 $(d,1) = c$ $(d,0) = b$ $(d,2) = e$
 $((a,e),(c,d)]$

•
$$(d,e)$$

 $(d,0) = b$ $(d,1) = c$ $(d,2) = e$
 $(e,0) = a$ $(e,1) = e$ $(e,2) = d$
 (a,b) marcado? $\Rightarrow (d,e)$ nas é equiva-
sim
 (c,e) rearcado?
 $e,d)$ marcado?



5.2) Ha- Iw /wagly L3 10,000, boat => hln = { E, box all= {w/awel} L= fa, aab, baa (=) all= { E,ab } a. (L/a) a = L? (Wa) a = 1 a, boa 4 + L . - (F) b. a (a) = 1? = 1a, aab(+ L . - - (F) c. (La)/a = L? La= Jaa, aaba, banary (Lu)/a= {a, aab, boa } = L --- (v) d. al(aL) = L ? al = } aa, daab, abaay a (aL) = (a, aab, baa (--- (v)

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