AUTOMATUL CE REMHOASTE ABUHARI CORECT EPECTUATE

Presigname ce avem admirai to appraise de aceiasi lungime serios ni binar si precedati de o, astfel rucat usultatul sa aiba aceiasi lunpime au operarrii

I= 40,10 × (0,1) × (0,1)

Exenfu

0110

Pe bandà se insaie simb

				The state of the s	1
1	1	9	()	9	1/1
	1	1	9	1	1/

map a cea mai putin semuficativa afra ple a insone operanti de onixe lungime AFD ce gliceste operation consta

$$\frac{(0,0,0)}{(0,1,1)} \qquad \qquad (1,0,0) \\ (0,1,1) \qquad \qquad (0,1,0) \\ (1,0,1) \qquad \qquad (1,1,1)$$

$$\frac{(0,1,0)}{(1,1,1)} \qquad \qquad (1,1,1)$$

Do (1,0,1) Do (0,1,1) Do (1,1,0) Do (0,0,1) Do € Sp

AFA is FA Puterea de recuroaster a automatelor frute deterministe este acesosi cu a celon nedeterministe. Matematic putem exprima acest lucru prim urmaticarea TEOREMA LAF = LAFD (som R = Rd)

unde R (ZAF) sont notati ptr. familia l'imbajelor recursoscute de automate Pirvite, r'an Rd (ZAFD) familia l'imbajelor recursocute de automate finte familia l'imbajelor recursocute de automate finte de terministe. R provine de la 16. repulate!

Demonstratie

Demonstram inchroinne $\mathcal{R} \subseteq \mathcal{R}_{d}$.

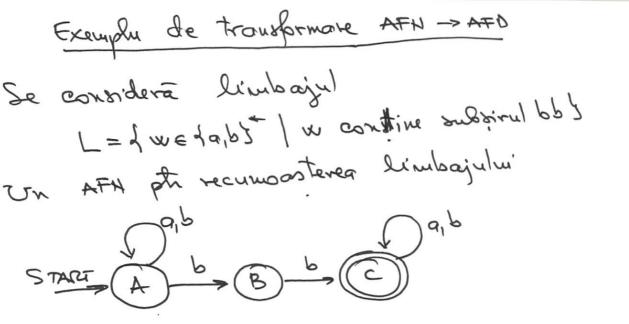
Tie $L \in \mathcal{R}$ of AF = (S, I, I, No, St) ai. L(AF) = L. Endert Bd = R. Construim urmātorul automat fint determinyt AFD=(3(S), I, f', 15,3, Sp)

unde f'este prelungues lui f la 3(5) x I (nou extruderes naturale de la SXI la 3(5) XI) Si St = 12 = 3 (3) 12 (1 St + 4)

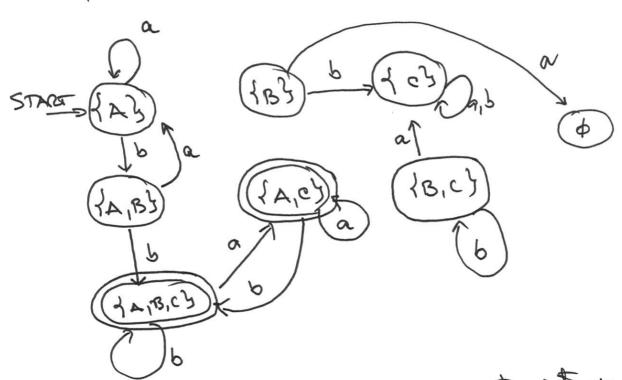
Aratem co L (AFD) = L (AF) prin duble inchainne L(AF) CL(AFD)

fie pel(AF). Atunci f(50,p) (Sp # # 15). printurmare f(00,p) ∈ Sp , adica e stere finale pt AFD.

Dan f(1001, p) = f(100,p) = Sp => PEL(AFD) Analog se poste oute cé L(AFD) = L(AF)



Ptr. construction AFD se susiderà 3(5) miloc



Obs: me toate starile apan pe troiéctorie alunai cand ponnime din starea initialà. Deai sunt inutilizabile la recumoasterea currintelor (ex. 185, 163, 15,63, \$) si le putem elimina Dupa o redeminire, AFD este

