( 724/20/ 2) sulless factors gulle655ul Suctor - hey Movey-72 9/12/02012/~~ 0/ house 9/0k~ 146A-47 Shills-82 People rnowledge-46 attitude-100 uving muchines -> Stuch 至何2, 2ck tufe ind -> 3件是 图为92, 32 至年22 -) alyaithmic computation

(louse tropertog of context-tres (F) is closed under union, Con Cut, Stal Prove? -7 CFG or PDH
Union of two language Li(Gi) Vua L2(62) (7 union = (V, V V2 V 2 SY, T, V 72, P, UP2) V ( 5-25/1/52 g)  $Muiou: \begin{cases} 5-7 \leq 1 \leq 2 \\ \leq 1 \end{cases}$ 

Stavis 7 5,5/X ex) (,: 5-) a5//> L2:57 4 a Sb/  $\frac{1}{5} \frac{1}{5} \frac{1}$ (1, L); S-75, S,  $S_1 \rightarrow 0.5, 6/\lambda$ S2-) aus, b/x L, 5-25,51X  $S_1 \rightarrow uS, blx$ 

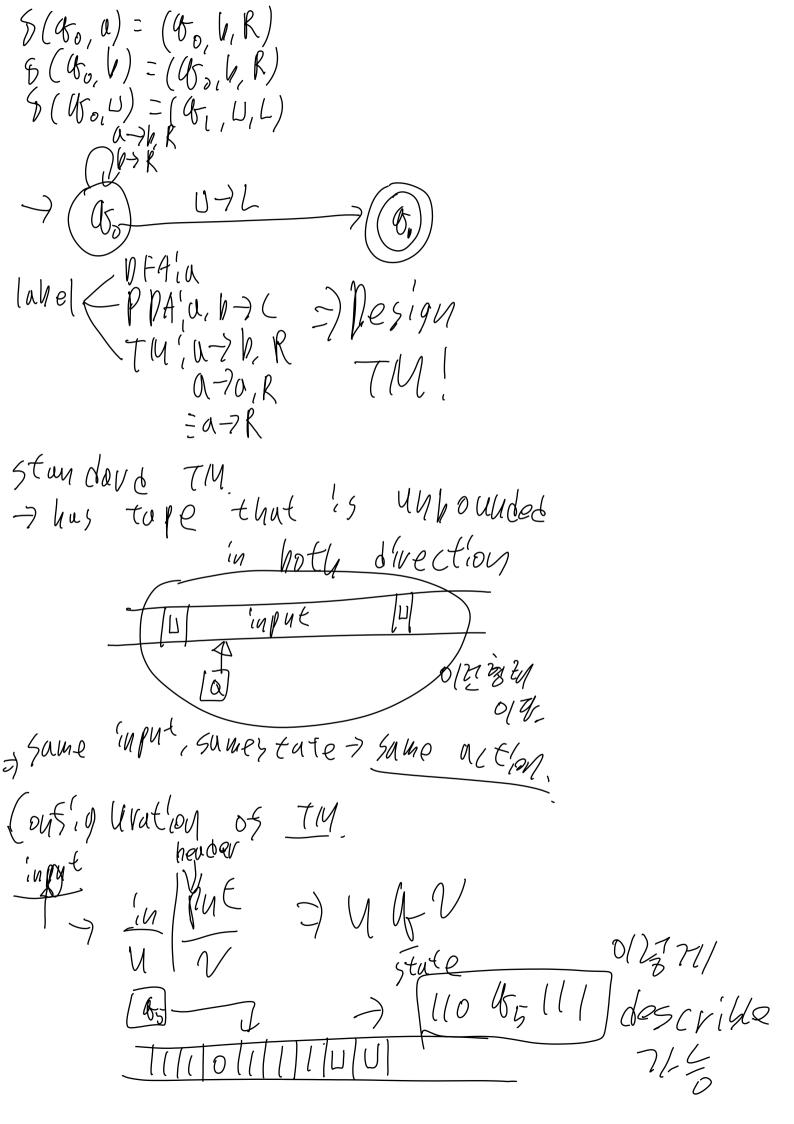
CFL is (ust closed under inta Section (VW5) L1 = {0"1"0", n20, m204 Lz=10"1"0";120,1204 LINL2 = (0"1"0": 11) 209 - aut (FG  $L_{1}$ ,  $S \rightarrow S_{1}, S_{2}$   $S_{1} \rightarrow 0, S_{1}$   $S_{2} \rightarrow 0, S_{2}$   $S_{2} \rightarrow 0, S_{2}$   $S_{2} \rightarrow 0, S_{2}$  $\frac{5.705.11}{52715201}$  >  $\frac{5}{2}$ CFL n CFL = Wot CFL

[1, L1, L1, L2] and conflement of closure of the Linhal Clousuren Zu. (FLMien (ontate Stav inter, Ger tien Comple AND OPENATIONS ZELS, ZEL Union, concat, starz 78512 105 400, out 67, lost cfld/

1921 4 22 U

TM! Tuving and china one DUC Out down autonatal computation autonatal solvable and united method Tuving Muluing i limited memor tape Two way, V/W head a vite a (ontrol unit

Tope in insinite Vasic oferation? 1 (bech current state. (1) halt state - terminate) 2 veud symbol Tu= (Q, Z, T, U, G, F) Zialpholet, U& Z UE [/ S'QXIT - QXIT XYL, RY Si pour Sul in principle, smull instructions ove acequate sor doing Complicated tasks UET, Wis a black ex) M, all, uz bz buze c. 466 Q=14, 4, 4 injut ; abh 2.2 du, 64 out jut; blib T= 9a, b, Ub 90=40 9, EF G(Wo, W)= (Bo, b, R), 8 (40,6)= (40,6,8) 6(40, U) = 19, U, L)



Untivo - Ult, a(v is(bi, v)=(bi, c, l);

Untivo - Ult, a(v) is(bi, v)=(bi, c, l);

Untivo - Ula (b) - bb 40+ba; b

Ula blu

Oltianzenz

Vonzenzenz

Thomas 2 #4019.