

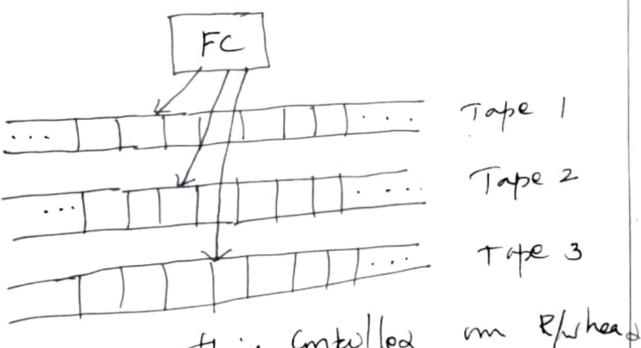
🖎 srm

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Multiple Tape TM

A multiple TM has a finite Control with some finite No. of tapes. Each tape & infinite in both directors. It has our unitial Blade 2 Some accepting states



-> Every Tape their Contulled

7 For n-tape TM M = 2 Q, Z, X, S, 2, B, F3 ve detre d = Qxxxx Qxxxx [1,R]

Different Variations of TM -> Multitupe Turing M/c -> NOn-Deterministic Tuny M/C -y multihead Turny m/c. For eg. 4 n=2, with Current Configuration S(20,9,e)= (2,x,x,L,R) Non-determinished Im

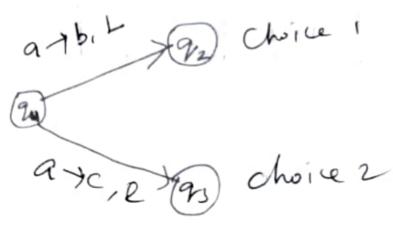
Similar Drm Except that In any
imput Starty and Connet State is har a A string in accepted by NOTM it there is a sequence of moves that heads to a de Line of 11 !--> the transisting fuchon $J: Q \times X \rightarrow 2$



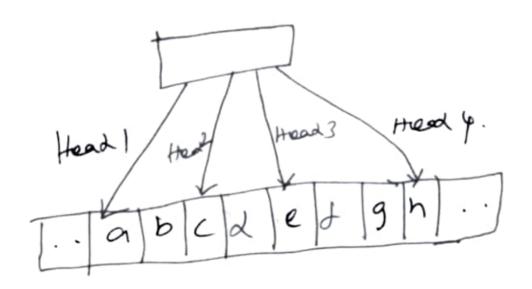
SRM UNIVERSITY

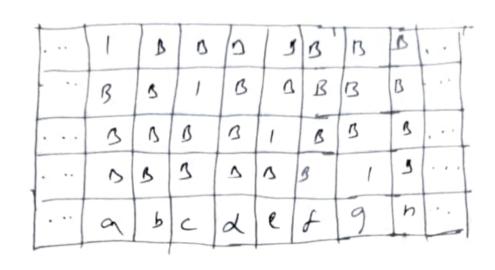


A NOTM in allowed to have more than me transform on a given take symbol.



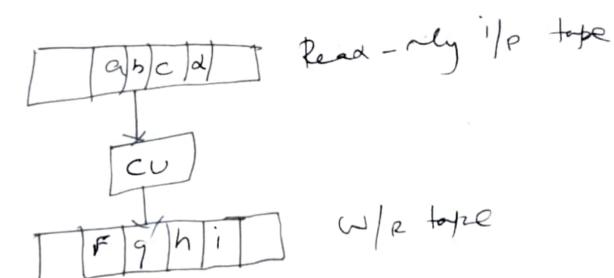
3) Multo head TM -) it has no. of heads instead of me I sach head independing readhrite Symbols and move left / Right.





offline IM

Ly that two tapes head only & contain the i/o In the other is need-wite I istially



Multi dimensimil TM Ly It has multidimensional tope

* a two-dimensional Im would need and write on an to institute type Livided into Equen like a dekboor

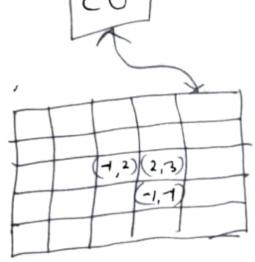


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* Transka duka J: QxT > QxT x [LR,U,D]



Construct a TM that acept String over \$13, andring over Number of 19

logic: Read ~ 1/p symbol me by me where on reading me 1, replace At fin Style it encenter!, riplace it by x and got the Previous Rejeat the Steps, till 9, contain the

B 78, R 1-1x,R 20 (20, X, R) (92.0, R) 2, (24, X, R) -