21-1/	Non-deterministic Turing Machines
The second secon	
	Are TMs closed under concatenation?
	Suppose X recog A and Y recog B, can you Z recog AOB?
	[Xno] an =7 ux[X, ga] v,
	and [4, go]bibm=> " uy [4, ga]vy
new management of the control of the	then
	[Z.go] an-van bi bm => " uz [Z.ga] VZ
	$S': \mathcal{O}_{\times} \Pi \rightarrow P(\mathcal{O}_{\times} \Pi \times \mathcal{E}_{L,R})$
GeneralND	next state chan unite direction
	$8'(8;16) = {(8;10,1)} (8;16,R)$
	CBR, WINC)
	8' [Q x [] -> (Q x [] x { LT, R}) + (Q x Q)
	no-nondet fork
	$S(g_{ija}) = (g_{ij}g_{k})$ $S(g_{ija}) = (g_{ij}g_{k})$
t erreiten. Het die geweg der Eg der on nie van von noor von an on dat eel dit die die die die die die die die	u[q:]av => u[q:]av => u[qk]av
ración principales en grapión de VII relayer in de cinivada de la la carda de carda inc. un la peter escala la pe	a [8, Jav = 1 a [8, Jav
	Depth-first search - Frace wall
	go Breadth-first search
	63
date-unervaki, ega angen til til avette sett til den til get 150 til 150 till höndstädet vein sinnen hör, vivin gde ett sette sett sette	
t til 1804 for menne gask er eft er til der eft er blev for eft er i i het er en ander en de en an en i i en a	

$21-2$ Fronting = P(config) $w \in L(FT)$ iff	
F 5 Co 7	
E [80]w] => * F(v & u	[8a] v 3
S(8:,b)=(8:,c,L)	
FC v { ua[8:]bv} => FC v { u[8:]acv}	
$S(g_i,b) = (g_i,g_k)$	
FCU ENA[8:]bv] =7 FC-{ ua[8:]bv, ua[8k]bv}	
R on xs reflexive: $\forall x$, $(x,x) \in R$	
then R* is the reflitans closer transitive: Yxy,z, (x,y) &	K
R+ is the trans closure	0
=7 (X,Z) E)	<u> </u>
	[,7,8€Q∈ [7
{co, c1, (2, c3} [] [] [[] [[] [] [] [] [] []	Fg:Jav
V V V	
{c1, (2, (3), (4, (5)) () [] [(,] # [(2] # [(2] # [(2] # [(4)] # (4)])	
[] [c,7 H [cz] + [c3] + [c4] + [c5] (fork)	
Spare mefficient, Time efficient	
The second secon	
Directions: Strings of "Left", "Right", "Forward" fork! Left", "Right", "Forward" Left", "Right", "Forward"	
fork! - Lforkr - determ	
Printer: shortest to largest who duplicates	Baladassicanta mencualmeno calquigi escolo estillatore del tilla del tilla del tilla del tilla del tilla del t
tupe 1: simulation of corrent path	
tape 2: original input	родунуу да дарын ардын эндүү айгайн айгайна байгайн айгайн айгайн айгайн айгайн айгайн айгайн айгайн айгайн ай
tape 3: current directions	