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K	Kleenes + theorem (P. Part 12 appropriate)
1	
	A language accepted by finite automata is
	regular.
a almta	To on each various too si a siede
bar,	Proof:
(i	IFI M = (Q, E, 90, A, S) is finite automata.
7	21 YOLOON OZIO, 21 2
	OJF we consider P and 9 as two sets then by using mathematical induction we con
	take union of it which is regular.
	2 IF P is an initial state then transition
	in k state , if k is large enough then
	L will be (P,9).
. 30	3 (et considerate states invite from 1 to n
(0.	and path going throughs. 5.5 values 2
andt	Now reonsider to the astring to or, y, Zot and re = yz
100	Now reconstruction to real state of the stat
	. Value NO repugn = 10
	8 (s,z) =i9 adtaqua doitauhai us
	Now, ratopart Ri (x p. 9)1
	$P \rightarrow q \rightarrow 1$
	rplupar 0210 21 (144. P.9)1
- 11	· · · · · · · · · · · · · · · · · · ·

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0	IF Language ((P,9) For n states then
21 0	A language and (P, Q) $I_{ij} = (A_i, P_i, Q)$ I_{const}
	where n is not higher i.e., no of states higher than n.
. ptno	sife La(Apria, M) is repulsed them is (D) a is
= stor	out ED P to C
	Applear ei daiden ti da gaign andt
Pot	g mora paras entition an Rig 977 3
Hon	Even p to q should be going from p in k state, p, q) $y = (a, paq) + eacuph$
	(P.q). 1 3d Him 1
-a ot	while proning basic stepshistie, (+(P,9,0)
	is regular? ? adjusted paid dog bas
	i.e. on the patate aidoes anot recontain more than
	ottore 1.e., it contain only
	i.e., finite so, L (2p=9.0) is Tregular.
	By induction hypothesis (x.z)
· · · · · · · · · · · · · · · · · · ·	je
	L(P,q,k) is tregular.
	then L(P, 9, k+1) is also regular.
	10 also regular.

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LGP/9pkith)/03 30 radio emollo3 ti	
The path from P to 9 doesn't contain path	_
higher than (k+1) state (x p. 9) 1 = 3	<u> -</u>
M + (V . 1+4) 1	
Let consider uwz be the states in such o	
(100) odieli 100 000 (1904)	_
- Cram state P to 15t to	
1000 - 1000 - 10 (PAI) 1 to (a x)	
7 => (From >(K+1)) to back itself!	-1
	-1
i.e.,	
	_ 2
MONTE CONTRACTOR KY KANDERS FOR CONTRACTOR C	
	_
	_
	_
(P) WK+1K	_ _

Justin L