FORMAL LANGUAGE AND AUTOMATA - CT 1

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Section: 02

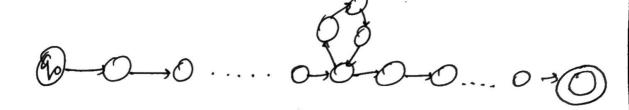
(3) Li = l 0 n 2 n / 1 n 2 6 Z is non regular.

-> Assume L, 1 regula.

Then there is a DFA M= (2, 5, 8, 90, R) recognizing L1.

-> 0' and 01 lead the same state.

0)1' which is incorrect, contradiction.



9,= 2 + 9,0 -3 (1) 9,= 9,1 + 92,1-16) 93= 920 + 920 + 920 - 600 Ford state (2) 21=8+2,0 R= R+RD Rarp R= Qp' V12 8.02 ER=R 21 = 00 - 0 Ford thate Fo 22 = Q1 + P21 22 = 001 + 21 n a n p R= RtRp R = Qps 22 = 0° 1 CIJS R= 0 + 0 11 0 (6 + 11) E + PR' = R'

= 0°1° (Regular Expression).