Tuesday, September 10, 2024 11:59 AM

ex. L={a^b: n 700} create afa, M, 3 L(M)=L,
Z={a,bs.

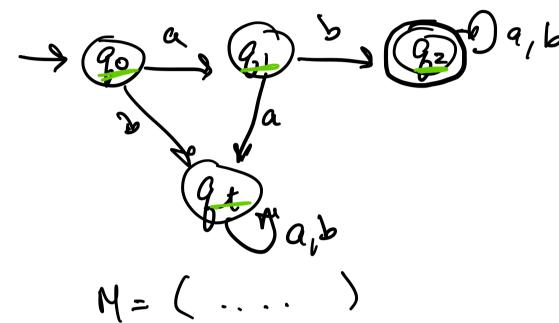
Li= [b, ab, aab, aaab, ... ]

H, '.  $\Rightarrow q_0 \xrightarrow{b} q_1 \xrightarrow{a,b} q_1 \xrightarrow{a,b} q_1 \xrightarrow{a,b}$ 

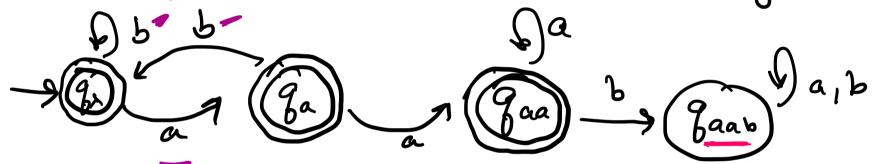
→ N=(₹80,81,8+3, ₹a,bf, &, 80, ₹9,3)

ex. Find a dea thout recognizes set of all strings on Z={a,b} storting up prefix ab!

L= {ab, aba, abb, abababaaab, ...}



Find a dla that accepts all strings on Z= Sa, bs except those Containing substring aab mi

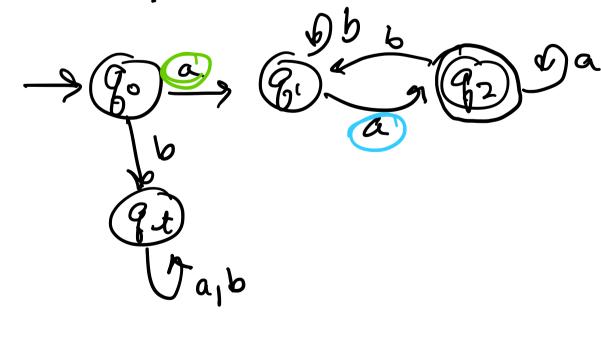


M= ( fgx, ga, gaa, gaab 5, 3a, b7, 8, gx, 8gx, ga, gaa 3)

a language Lis regular iff 3 some alg, M, 2 L(M)=L.

en show that language L= gawa: we ga, b5\* g is regular.

L= gaa, aba, a aaaaaba, a bbbbbbba,...g



if a language L is regular then so are  $L^2, L^3, ...$ 

Nfa = dfa  $V = (\varphi, \Xi, \delta, \delta, F)$   $V = (\varphi, \Xi, \delta, \delta, F)$   $V = (\Xi \cup \{x\}) \rightarrow \Xi^{q}$