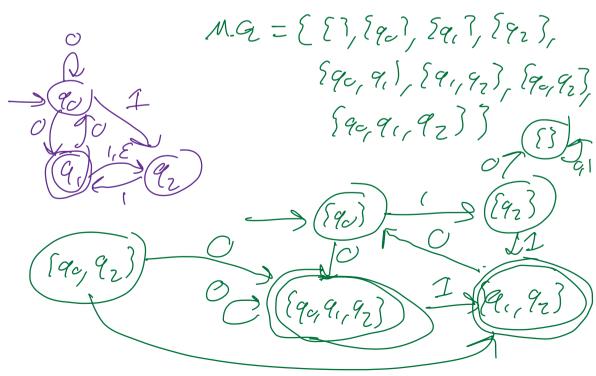
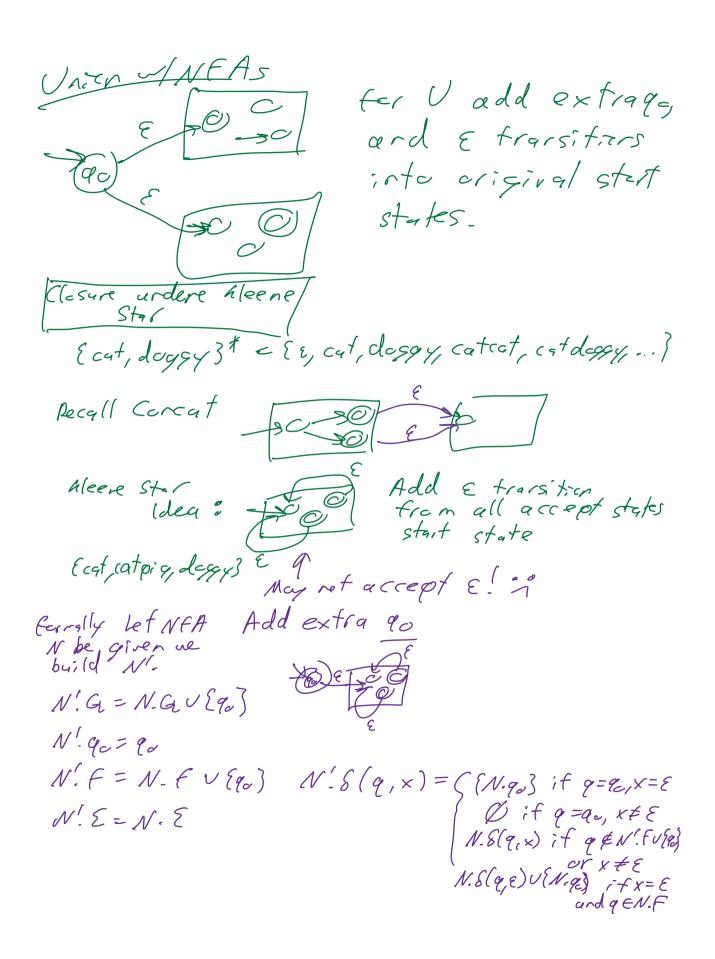
Announcements: · OH Schedule posted · HWI due Rat 10pm

· where are we? Closure 010 Q 9, 9, 9, 92 9, 92 Reject Clo thm: Lis regular iff L= L(N) for some NFA. Pf. (>) is trivial Lregalar => L= L(M) for DFA M tlen interpret Mas NEA. Have cur DFA state store sets of NFA states

Lef N be given. We build M as follows. $M. \xi = N. \xi$ $M. G = P(N. G) = \{S \subseteq N. G\}$ $M. go = \{M \notin O\} \text{ almost}$ $= \{\{g \in S\}\}$ $M. F = \{\{g \in S\}\}\}$ $M. F = \{\{g \in V. G\}\}$ $M. F = \{\{g \in V. G\}\}\}$ $M. F = \{\{g \in V. G\}\}$ $M. F = \{\{g \in V. G\}\}\}$ $M. F = \{\{g \in V. G\}\}$ $M. F = \{\{g \in V. G\}\}$ M. F





A largerage Ris regular iff it can be generate by the fallowing rules (applied a finite number of 1.ves)
OR= \$ ([2] , { 0] , { 1] } > { 9 } for some a € E
(DR=R, URZ Fer regular R, RZ
$(2) R = R_{i} \circ R_{z} \qquad (($
3) R=Rit fer regular Ri
Not actually needed. EE3 = Q*
(also $\{\epsilon\} = \{\epsilon\}^{*}$.)
Show how to construct these regular larguages ({00 } e.g. {0} =