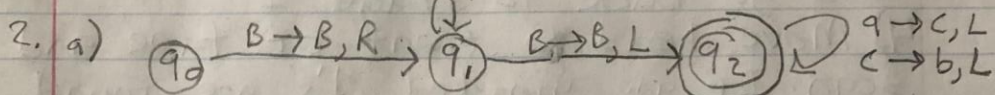
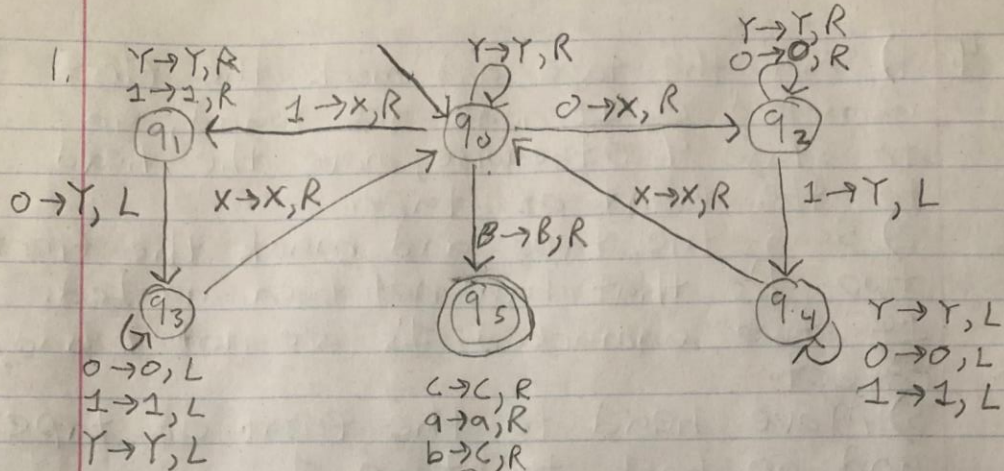


CS 252

HW #6

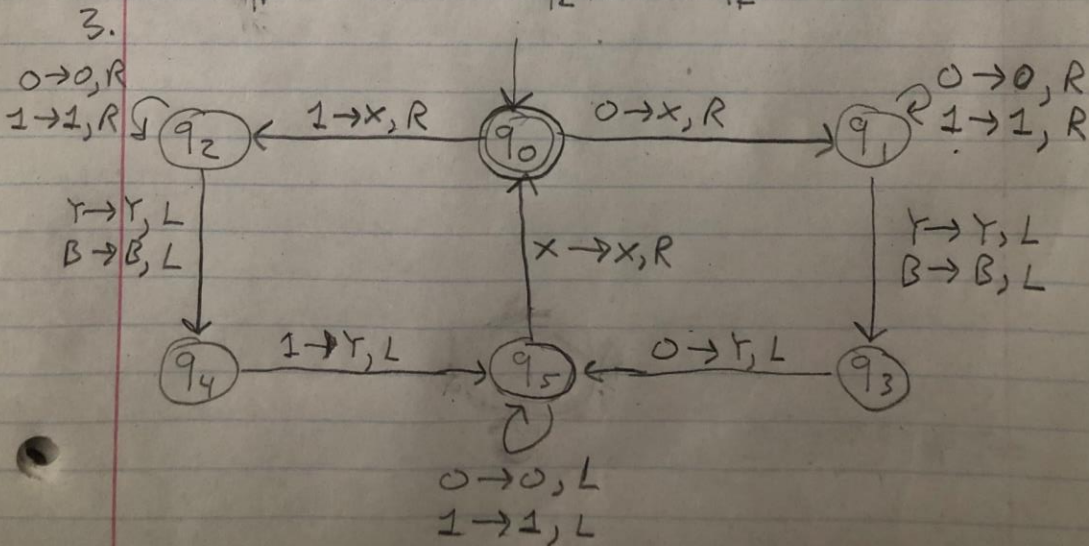
Thomas Hart



b) The machine turns all a's into c's and turns all c's into b's

c)

$q_0 B a a b c a$	$B a a c q_1 c a$	$B a a c q_2 c c B$	$q_2 B c c b b c B$
$B q_1 a a b c a$	$B a a c c q_1 a$	$B a a q_2 c b c B$	
$B a q_1 a b c a$	$B a a c c a q_1$	$B a q_2 a b b c B$	
$B a a q_1 b c a$	$B a a c c q_2 a B$	$B q_2 a c b b c B$	



4. 1) Scan the tape and mark the first unmarked 0. If none are found, go to stage 4. Otherwise, move the head to the front of tape.
- 2) Scan the tape and mark the first two 1's that have not been marked. If two unmarked 1's are not found, reject.
- 3) Move head to the front of tape and go back to stage 1
- 4) Move head to front of tape and scan. If any unmarked 1's are found, reject. Else, accept.