CSCC63 TUT 0002

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Tutorial: Wednesdays 2-3pm

Office Hours: Wednesdays 3-4pm

https://utoronto.zoom.us/j/89433115567

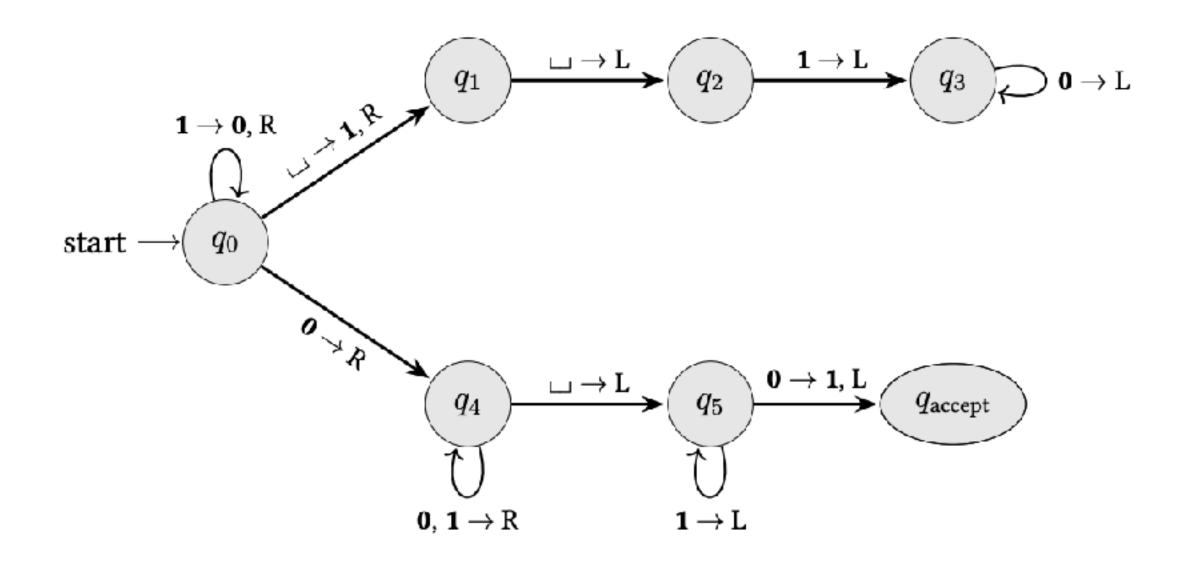
Meeting ID: 894 3311 5567

Passcode: 242845

Advice

Mindset
Work with partner
Study assignment solutions

Question 1

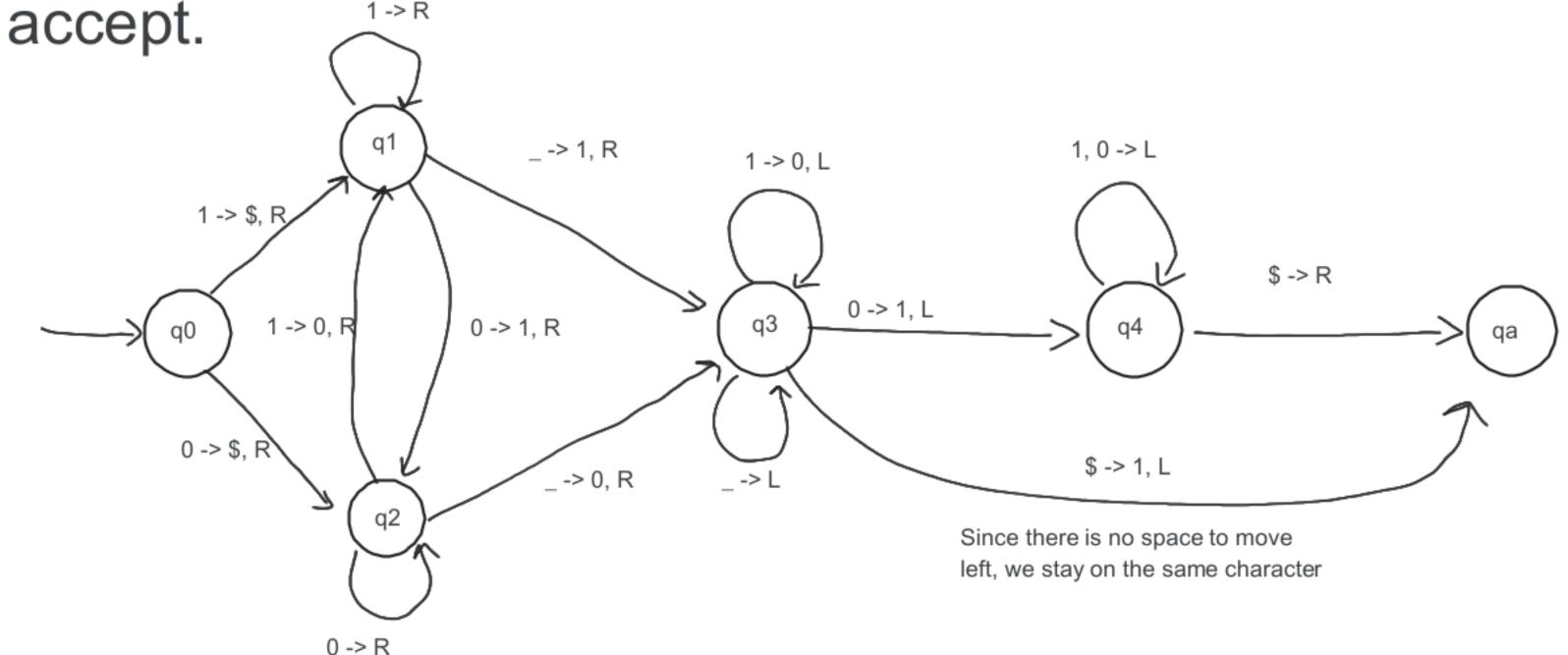


Accepted Strings: 0, 00, 010, 001, 1110 Looping Strings: 1, 11, 11111, 111 Rejected Strings: epsilon

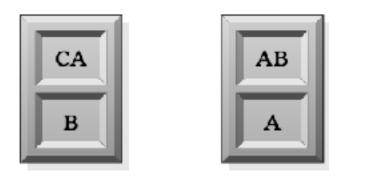
Question 2

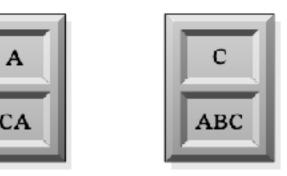
Build a TM that adds 1 to the input, then accepts with the head at its first tape cell

First turn 101 -> \$101, then add 1, go back until we hit \$ and



Question 3: PCP





$$AB + CA + A + AB + C = "ABCAAABC"$$

 $A + B + CA + A + ABC = "ABCAAABC"$

Graph: $G = (V, E) \lor \{s, a, b, c, t\}$ given node s, t $E: \{(s, a), (a, b), (b, c), (c, a), (b, t)\}$

pcp solution #s a b t # # s a b t#

a c c b

