Department of Computer Science and Engineering
University of Liberal Arts Bangladesh
Mid-Term Examination (Summer 2020)
Course: Automata and Theory of Computation (CSE 417)
Section: 2 --- Duration: 1 Hour

Name: John/Jane Doe **ID:** #########

ANSWER TO THE QUESTION No. 1

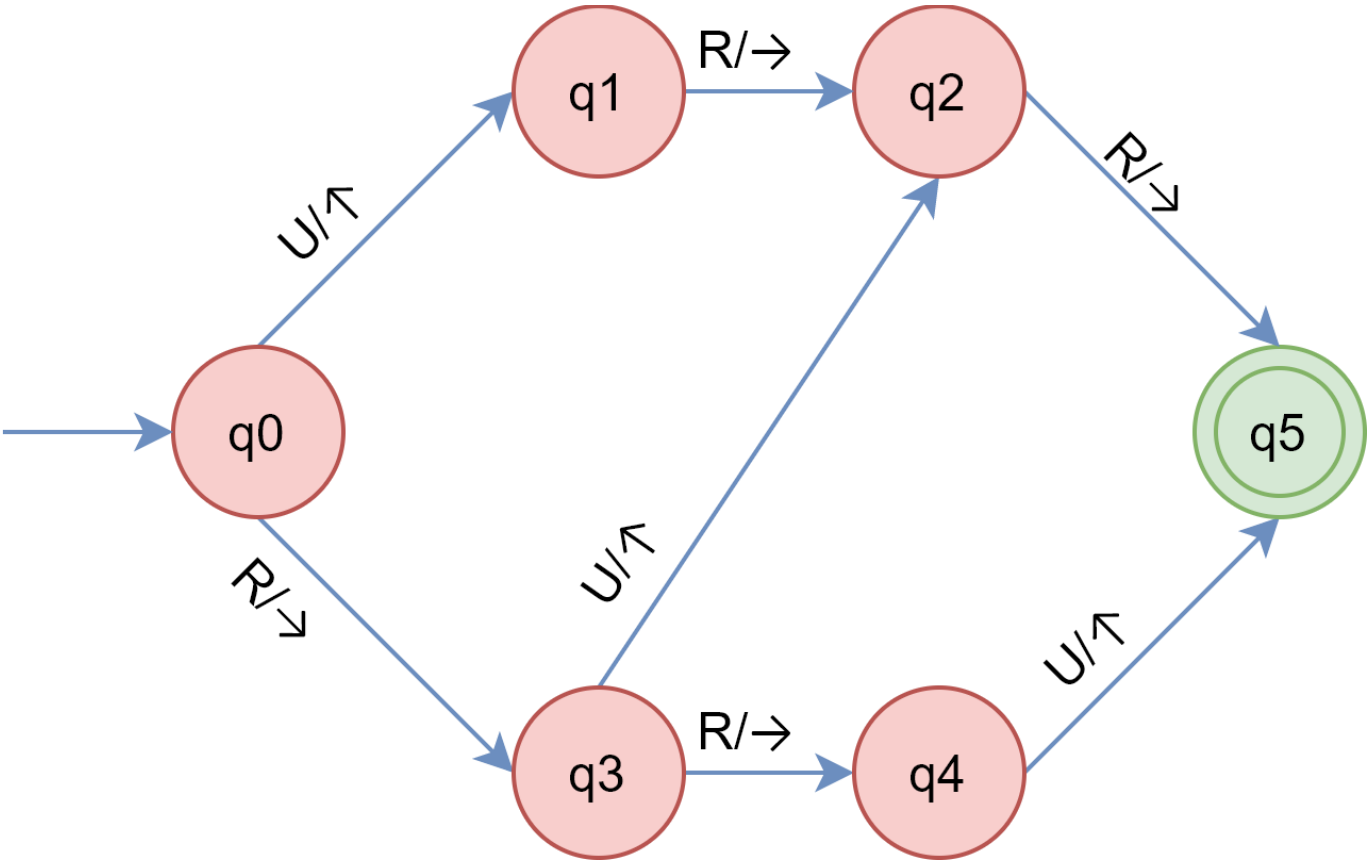
See Juthi Elizabeth Gomez's answer script.

ANSWER TO THE QUESTION No. 2

See Juthi Elizabeth Gomez's answer script.

ANSWER TO THE QUESTION No. 3

NFA:



Q = {q0,q1,q2,q3,q4,q5}
∑ = **{Up, Right}** or ∑ = **{U, R}** or ∑ = {↑, →} or ∑ = **{Up/U/↑, Right/R/→}**
q0 = q0
F = {q5}

ANSWER TO THE QUESTION No. 4

Convert the above NFA to DFA.