

CS 302
REMOTE QUIZ 5

7 April, 2021

Duration : 15 minutes

Closed Notes , Books and all Electronic Devices

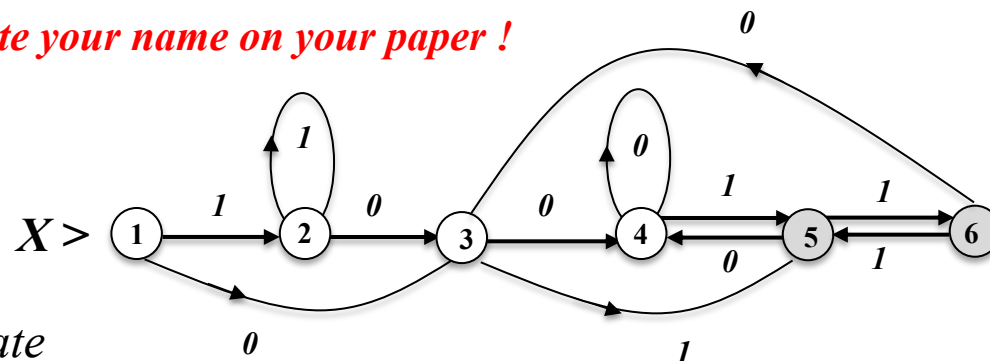
Do not forget to write your name on your paper !

QUESTION

Consider the following NFA X

where initial state is 1 and the final state

set is $F=\{5,6\}$



(a) (2 pts) State whether X is a DFA or not.

(b) (4pts) Using the **table filling algorithm** compute the n -equivalent state sets for $n=0,1,\dots$

(c) (4pts) Compute and plot $Y =$ the **minimal state equivalent** for X .