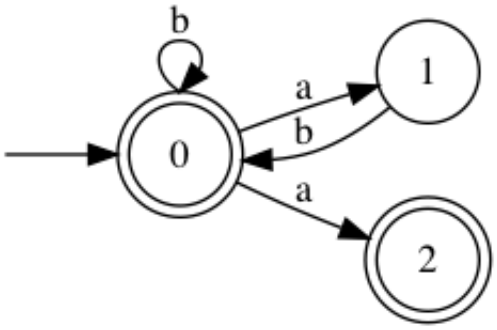
CMSC 330, Fall 2017 Quiz 2

Name (as it appears on Gradescope) _____
Discussion Time (circle one) 10am 11am 12pm 1pm 2pm 3pm
Discussion TA (circle one) Joseph Greg Justin Michael BT Daniel David Derek
~ Cameron Eric Kesha Shriraj Pei-Jo Michael Bryan Kameron

Instructions

- Do not start this quiz until you are told to do so.
- You have 15 minutes for this quiz.
- This is a closed book quiz. No notes or other aids are allowed.
- For partial credit, show all your work and clearly indicate your answers.

1. *(10 points total)* Consider the following NFA:



   (a) *(1 point each)* For each string below, circle "accept" if the string is accepted by the NFA, and "reject" if it is rejected.

ε	accept / reject
ababb	accept / reject
bbbaa	accept / reject
ba	accept / reject
baab	accept / reject

   (b) *(5 points)* Write down a regular expression for the language accepted by this NFA.

2. *(10 points)* Convert the following NFA to a DFA using the algorithm discussed in class.