0/4 Questions Answered

Quiz 3 - NFA/DFA

STUDENT NAME

Q1 NFA to DFA

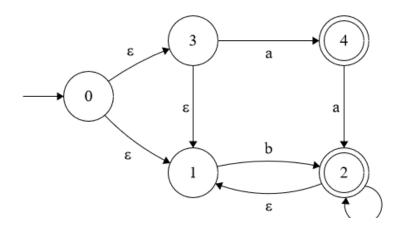
7 Points

Q1.1 NFA to DFA

7 Points

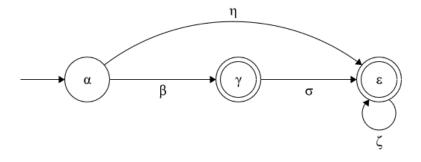
Fill in the values for α , β , γ , δ , ϵ , ζ , and η by converting the following NFA to DFA. If multiple symbols are on the same transition, you can separate them with a comma. For example: a,b

NFA:



 $\overline{}$

DFA:



Blank α

Enter your answer here

Blank β

Enter vour answer here

Blank y

Enter your answer here

Blank ō

Enter your answer here

Blank &

Enter your answer here

Blank ζ

Enter your answer here

Blank η

Enter your answer here

Save Answer

Q2 Regex to NFA

7 Points

With this following regex: (ab | a | c) +

Acceptable string matches include:

aab

abaaab

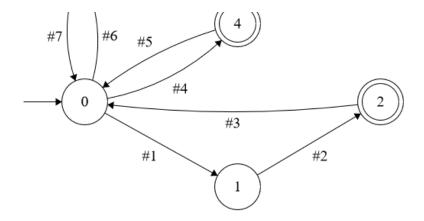
acaba

aaaccc

Fill in the blanks for the following NFA so that it represents the regex given above. Valid representations of epsilon would be &, E, or epsilon.







Blank #1:

Enter your answer here

Blank #2:

Enter your answer here

Blank #3:

Enter your answer here

Blank #4:

Enter your answer here

Blank #5:

Enter vour answer here

Blank #6:

Entaryour anguer hard

EIILEI VOUL ALISWEL HELE

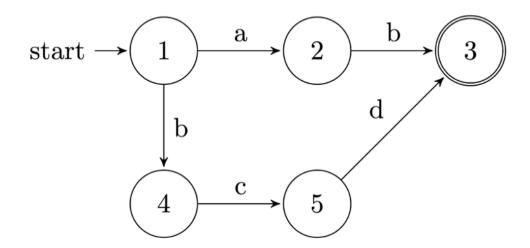
Blank #7:

Enter your answer here

Save Answer

Q3 NFA Modification

6 Points



Q3.1

3 Points

What single transition could be added to modify the NFA to accept the input "bcdcdcdcdcd"?

Note: Use the notation (1, a, 2) to denote a transition from state 1 to state 2 on input a . You can use (1, epsilon, 2) to denote an epsilon transition from state 1 to state 2.

Enter your answer here

Q3.2 3 Points	
Is the original NFA also a DFA	n? Explain why or why not.
Enter your answer here	
Save Answer	