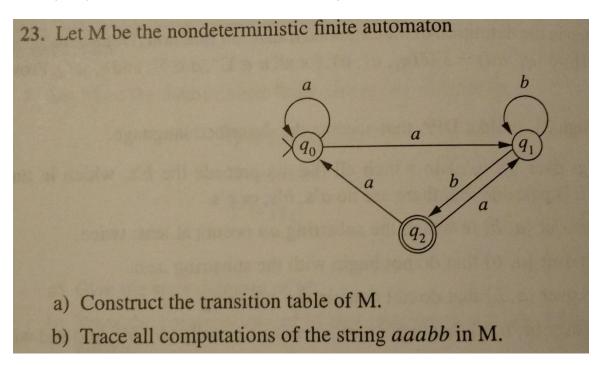
CSCI 3236 Homework #5 Due date: March 14, 2019 (Thursday), 11:00am

Chapter 5 Exercises

Part I. 8, 23, converting from NFA to DFA

8. Build a DFA that accepts the described language: The set of strings over {a, b} that do not contain the substring aaa.



Hint:

- Exercise 8: design a DFA to accept the complement of the language. Then interchange the accepting and non-accepting states.
- Make sure that you build a <u>DFA</u> for Exercise 8. Not an NFA.
- For Exercise 23 (b), you need to draw the computation tree for string aaabb, as we learned in class.