

Joseph Schmidt

Lab2: More token making, now with Finite Automata

*Crafting a Compiler Exercises:*

3.3

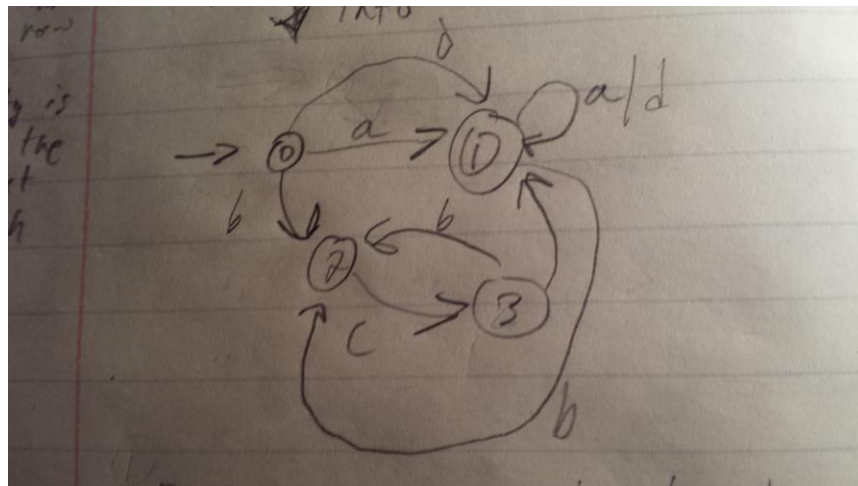
part1:  $(ba+b)|(ab+a)$

part2:  $a|(abcda)^+|(acda)^+$

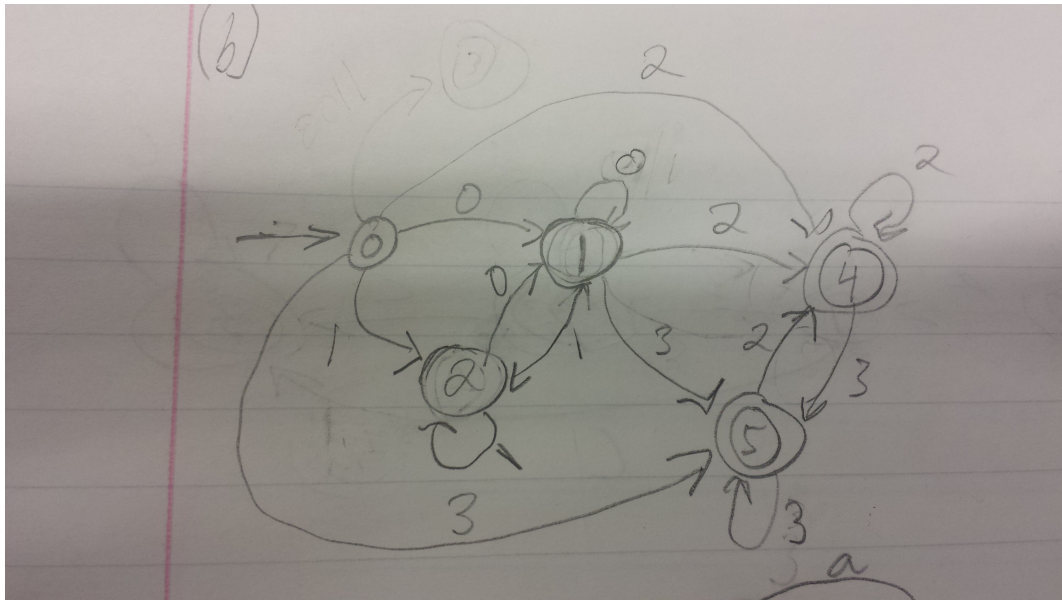
part3:  $\epsilon|ab^*c$

3.4

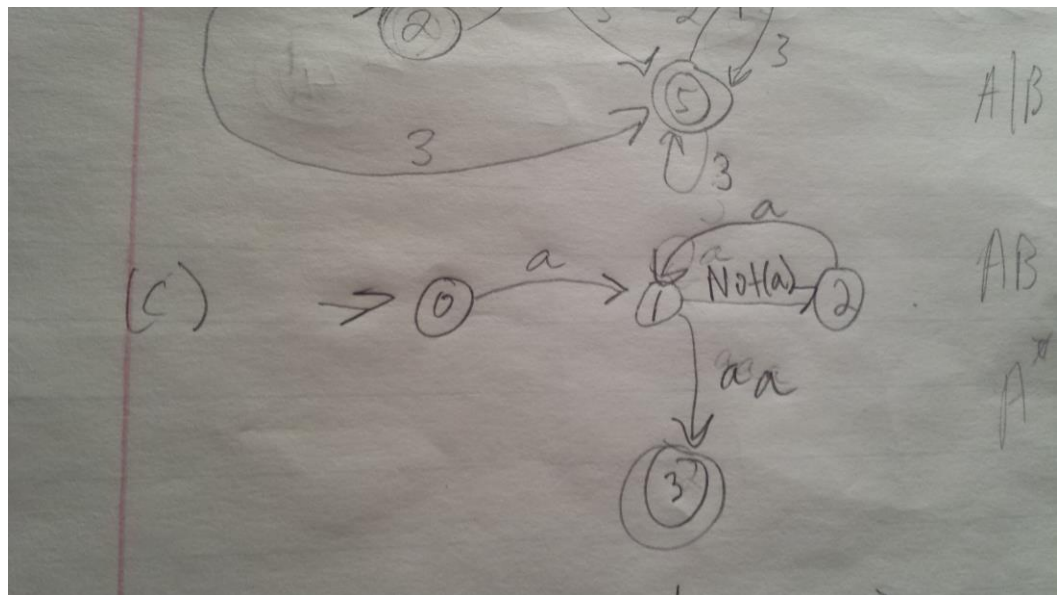
(a)  $a|(bc)^*d)^+$



(b)  $((0|1)^*(2|3)^+)|0011$

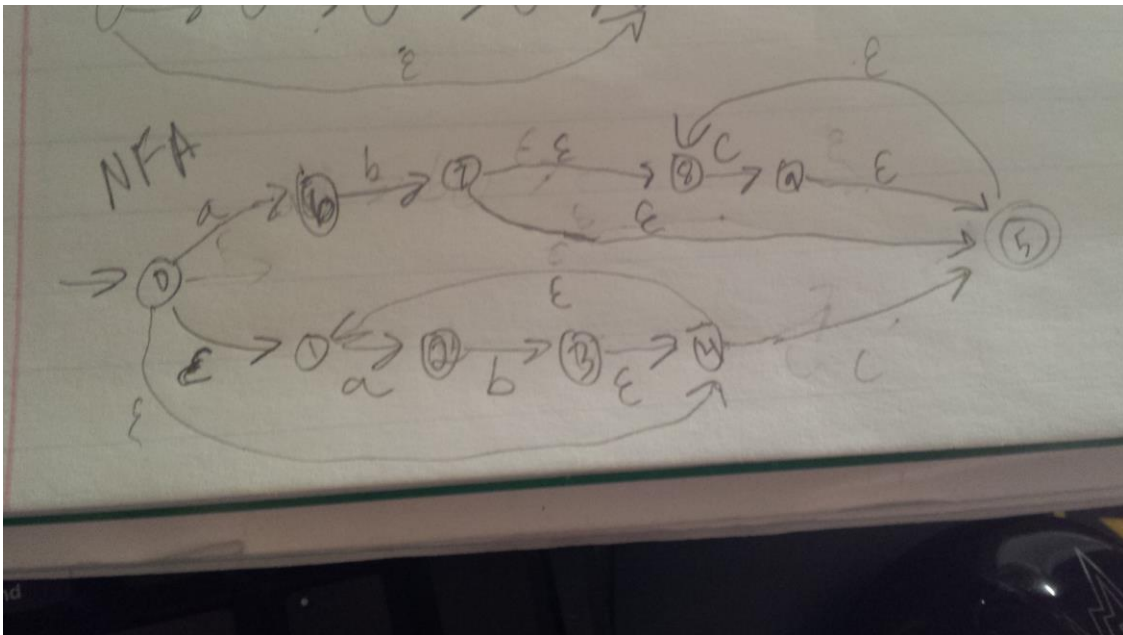


(c)  $(a \text{ Not}(a))^*aaa$

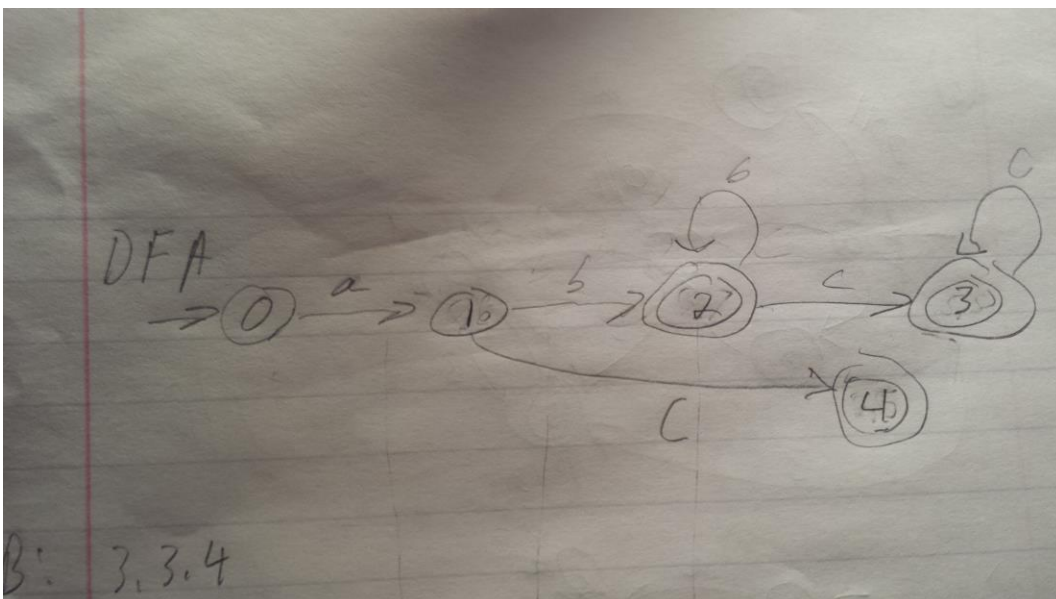


3.15

NFA



DFA



Correction: The "c" that goes to state 4 can just go straight to state 3, and 4 can be removed. State 4 is superfluous.

*Dragon Bible:*

3.3.4

(S|s)(E|e)(L|l)(E|e)(C|c)(T|t)