Joseph Schmidt

Lab2: More token making, now with Finite Automata

Crafting a Compiler Exercises:

3.3

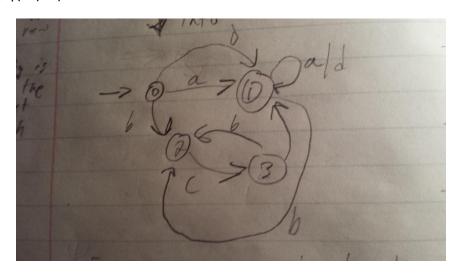
part1: (ba+b)|(ab+a)

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

part3: ϵ |ab*c

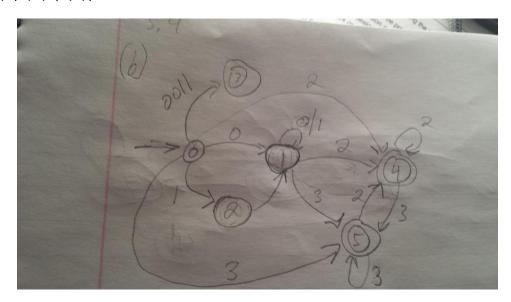
3.4

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

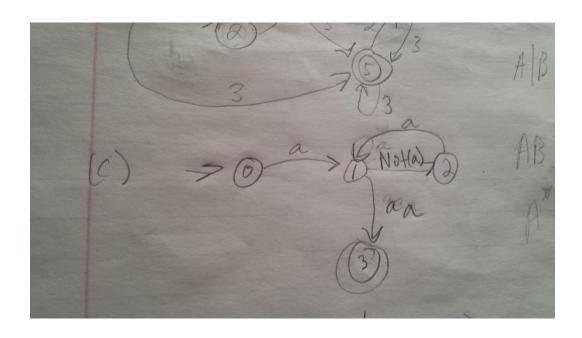


Correction: the transition from state 3 to 1 should be labelled "d".

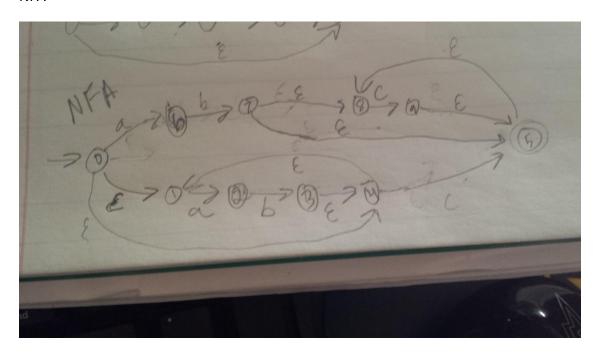
(b) ((0|1)*(2|3)+)|0011



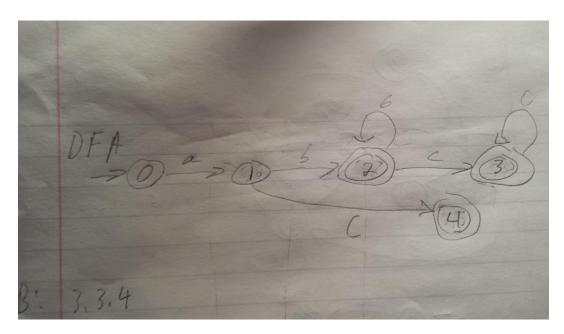
(c) (a Not(a))*aaa



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|I)(E|e)(C|c)(T|t)