

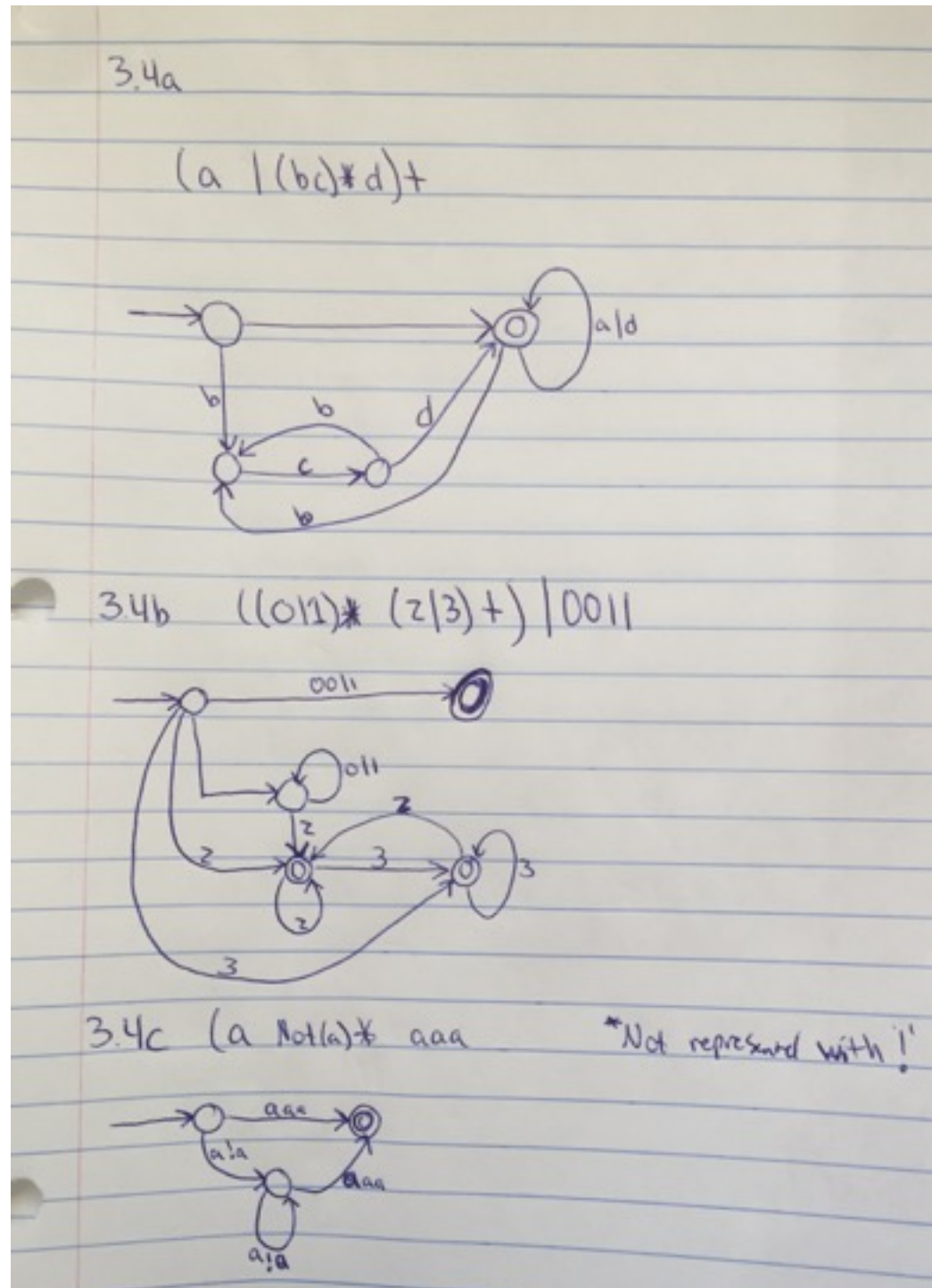
## Lab 2

### Crafting a Compiler

3.3a.  $a(b)^*a \mid b(a)^*b$

3.3b.  $a(c)^*da \mid abcda \mid a$

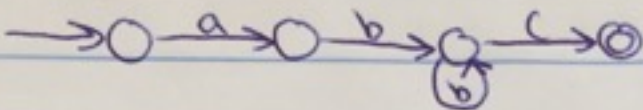
3.3c.  $^{\wedge}\$ \mid a(b)^*c$



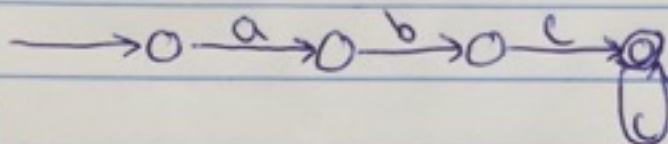
3.15

3.15 NFA for  $(ab^*c) \mid (abc^*)$

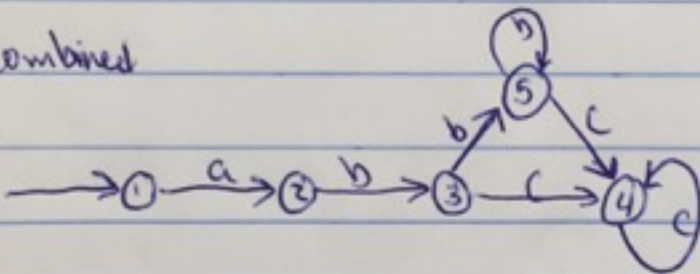
Finite Automaton for A:  $ab^*c$



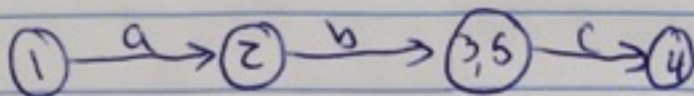
Finite Automaton for B:  $abc^*$



Combined



Minimal State Equivalent



## **Dragon**

### **3.3.4**

Many languages support modifiers in their regexes. With this you can use the modifier `/i` to denote that the keyword was to be case-insensitive.