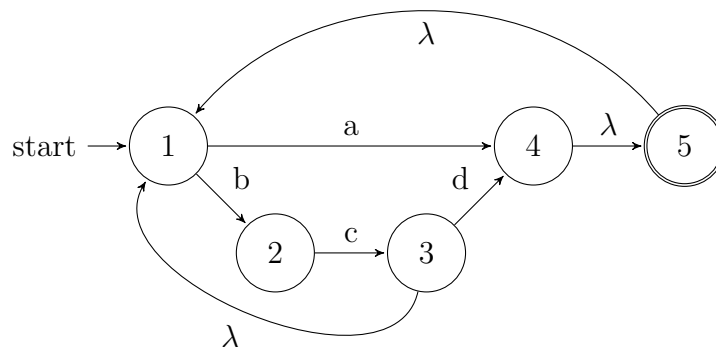# Lab 2

Christopher Lee

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Crafting a Compiler 3.3: Write regular expressions that define the strings recognized by the FAs in Figure 3.33 on page 107.

1. $((ab^*a) \mid (ba^*b))$

2. $((bc) \mid c)da$

3. $(ab^*c)^*$

Crafting a Compiler 3.4: Write DFAs that recognize the tokens defined by the following regular expressions:

(a) $(a \mid (bc^*)d)^+$

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

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

Crafting a Compiler 3.15: Show the NFA that would be created for the following expression using the techniques of Section 3.8: $(ab^*c) \mid (abc^*)$

Dragon Book 3.3.4: