

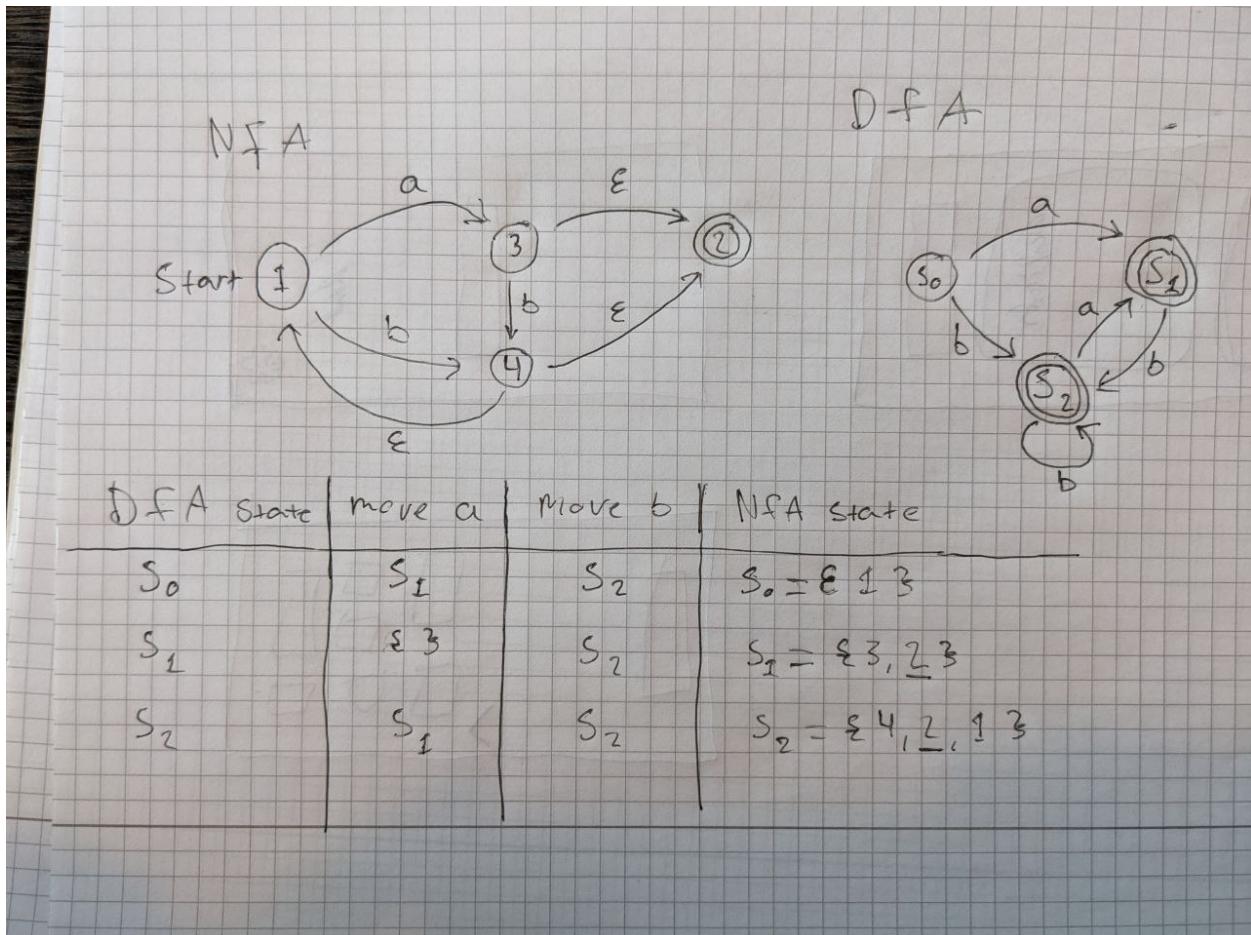
Assignment 2

PLC Exercise 3.2

Regex:

$(b^+|ba|a)(b+a?)^*$

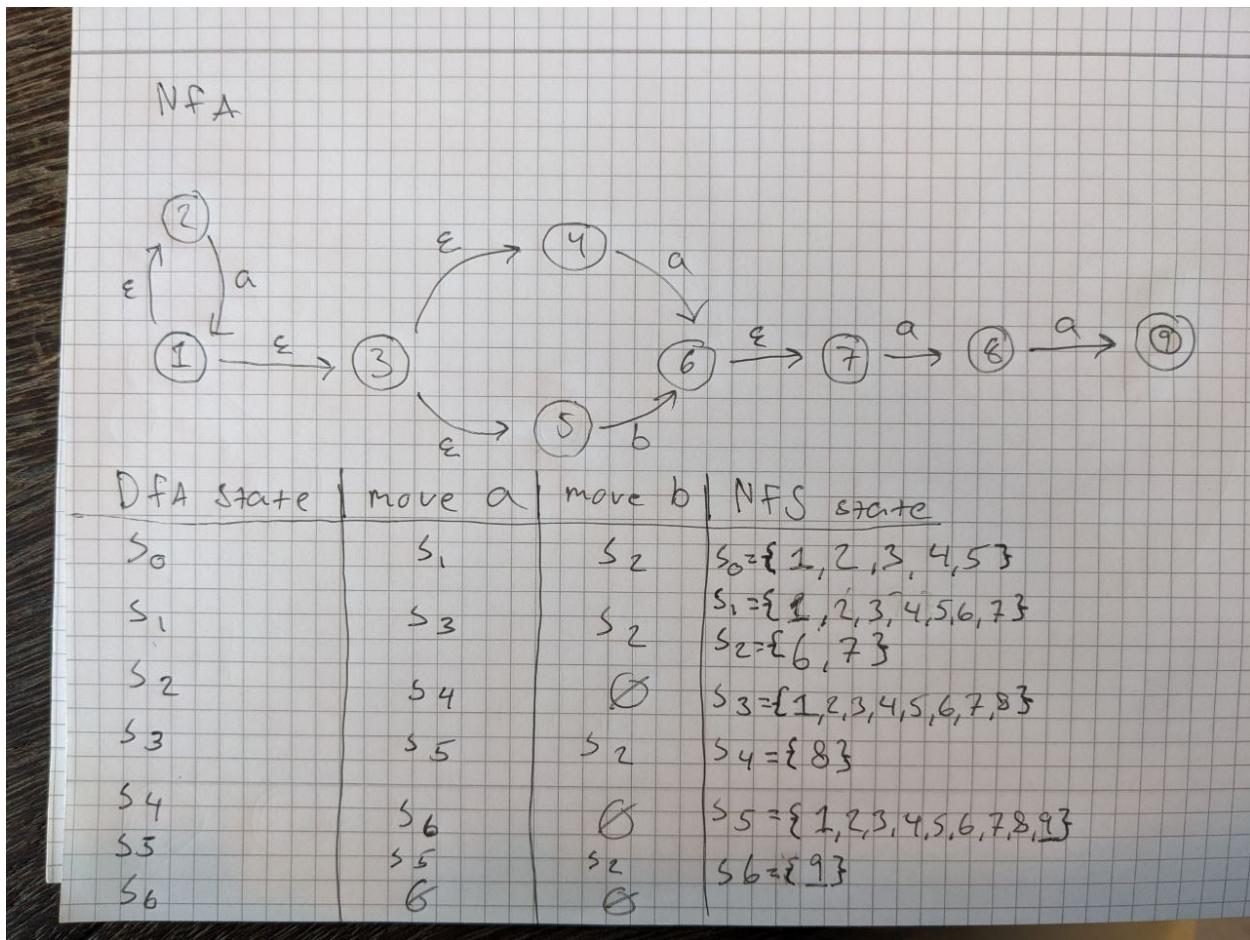
NFA and DFA:

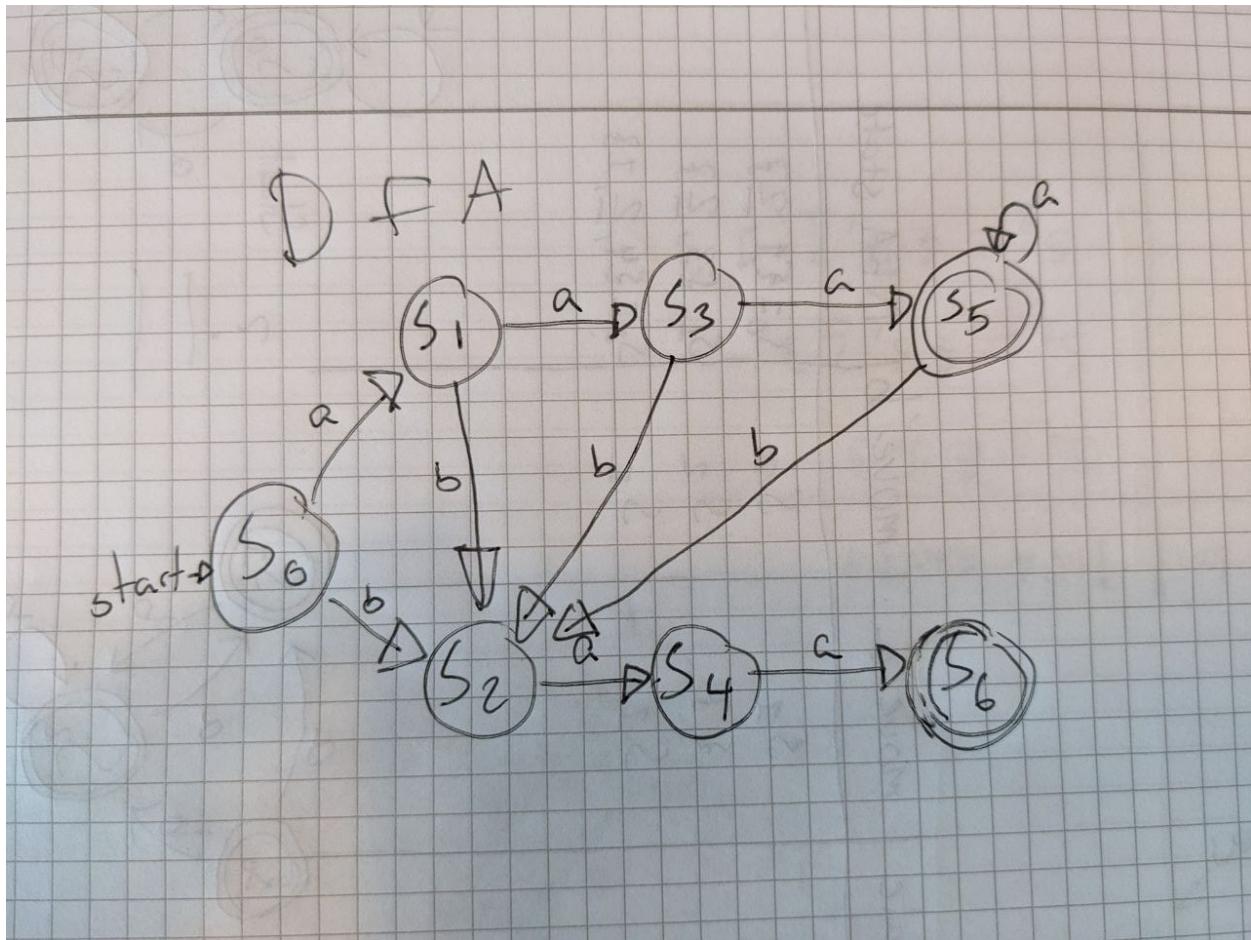


BCD Exercise 2.1

a: $\wedge 0^* 42\$$
 b: $\wedge 0^* ([1-35-9] \wedge d^* | 4[13-9] \wedge d^* | 42 \wedge d+ | 0+ | 4) \$$
 c: $\wedge 0^* (4[3-9] | [5-9] \wedge d+ | [1-9] \wedge d\{2, \}) \$$

BCD Exercise 2.2





HelloLex Questions

1. The regular expression involved is the expression `[0-9]`, meaning a single digit.
2. The additional file generated is `hello.fs`, the lexer. There are three states.