

Lab Two

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1 EXERCISE 3.3

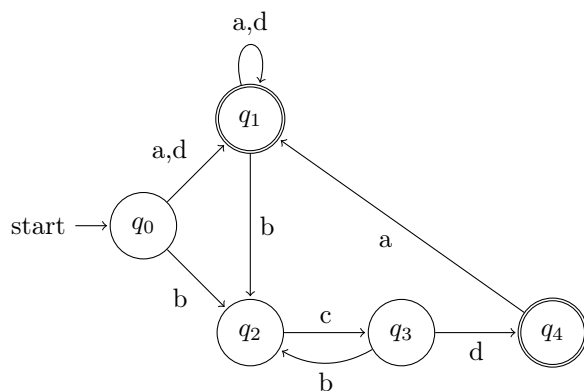
1.1 REGEX FOR FINITE AUTOMATA EXAMPLES

- 1.) $(ab^*a)|(ba^*b)$
- 2.) $a|a((bc|c)da)^+$
- 3.) $\lambda|(ab^*c)$

2 EXERCISE 3.4

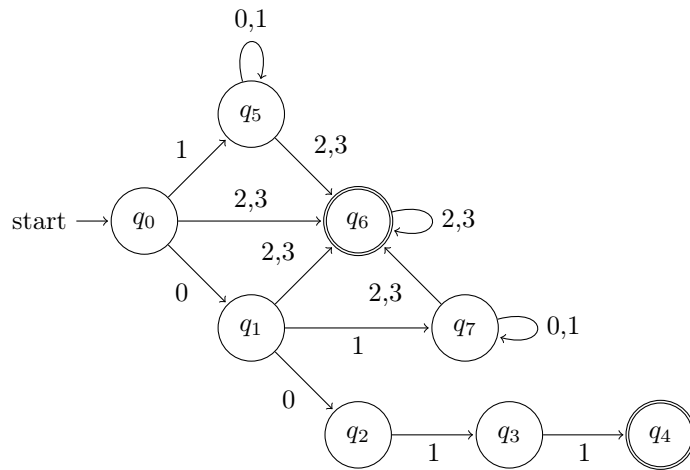
2.1 DFA ONE

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



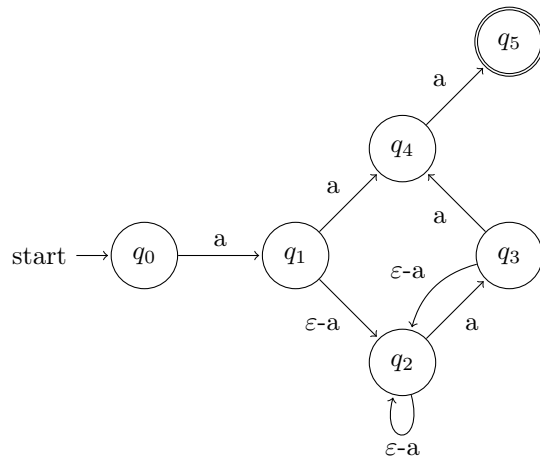
2.2 DFA Two

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



2.3 DFA THREE

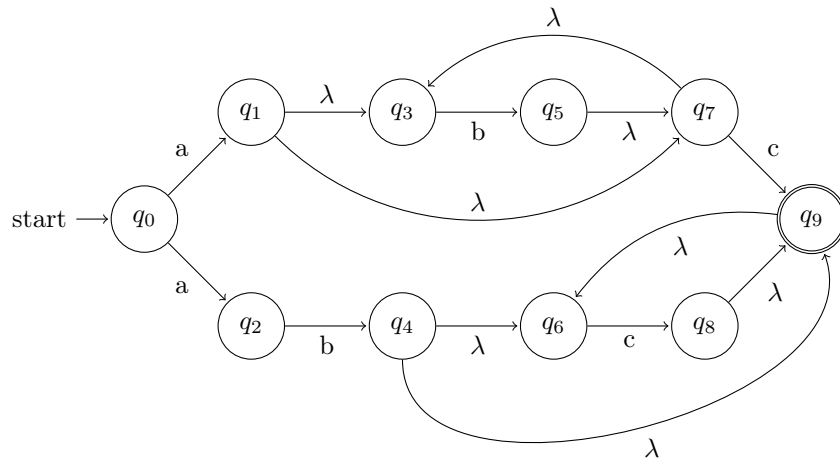
$(aNot(a))^*aaa$



3 EXERCISE 3.15

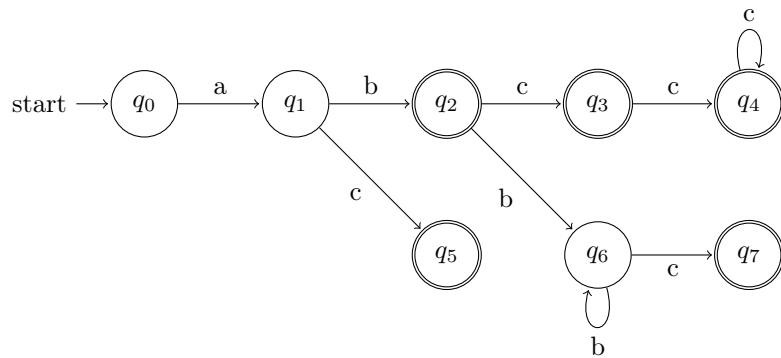
3.1 NFA FOR REGEX

$(ab^*c)|(abc^*)$



3.2 DFA FROM PREVIOUS NFA

$(ab^*c)|(abc^*)$



4 EXERCISE 3.3.4

4.1 CASE INSENSITIVE REGEX

$[Ss][Ee][Ll][Ee][Cc][Tt]$