
Lab Two

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1 Lab 2

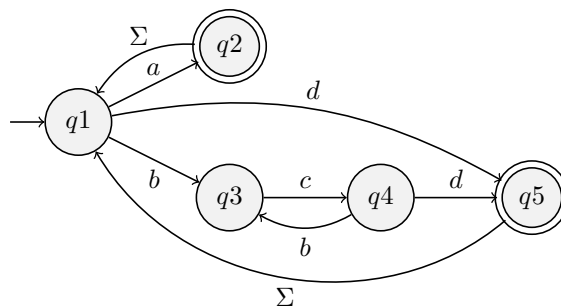
1.1 *Crafting a Compiler*

1. 3.3

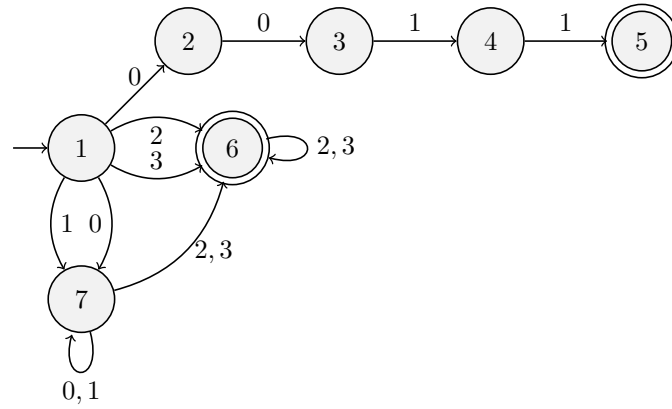
- (a) $(ab^*a)|(ba^*b)$
- (b) $a+(d(c|bc))^*$
- (c) $|ab^*c$

2. 3.4 - Regex and DFAs

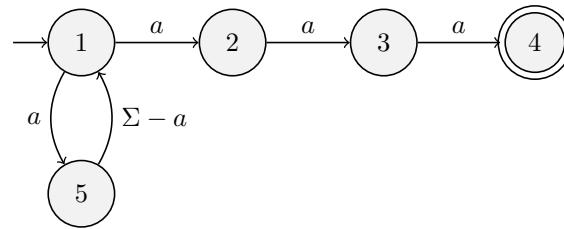
- (a) $(a|(bc)^*d)^+$



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



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



1.2 *Dragon*

1. 3.3.4

To write the regex for a keyword in a case insensitive language, you need to include both the lower and uppercase characters for any character used in a keyword. As an example, I have written how Select would look in a case insensitive language: $[sS][eE][lL][eE][cC][tT]$.