

Crafting a Compiler

Exercise 3.3: Write regular expressions that define the strings recognized by the FA's in Figure 3.33 on page 107

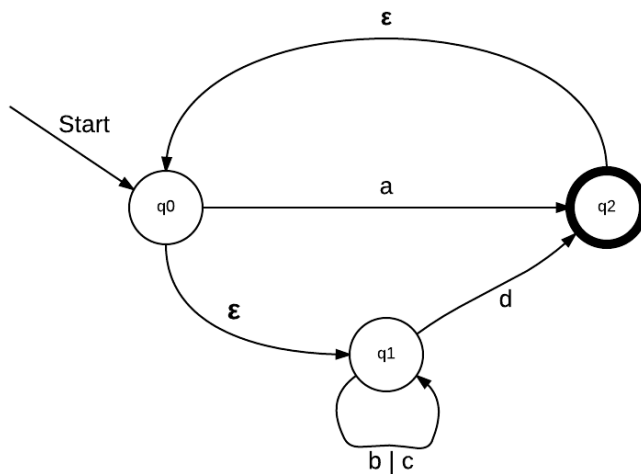
Figure 1: $(a(b)^*a) \mid (b(a)^*b)$

Figure 2: $a \mid (a(bc \mid c)da)^+$

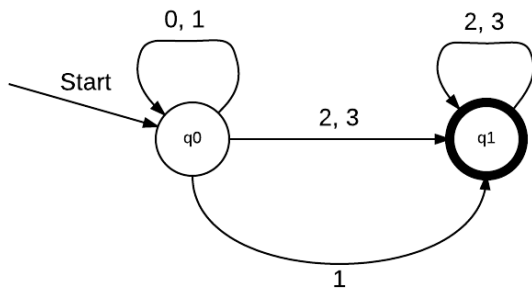
Figure 3: $\{ \} \mid a(b)^*c$

Exercise 3.4: Write DFA's that recognize the tokens defined by the following regular expressions:

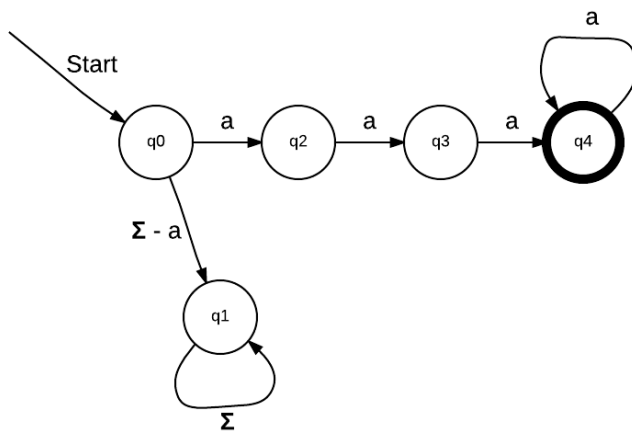
a)



b)

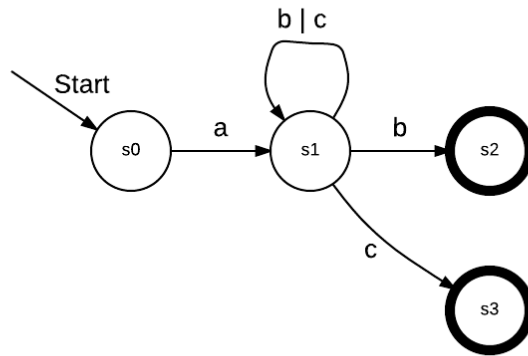


c)



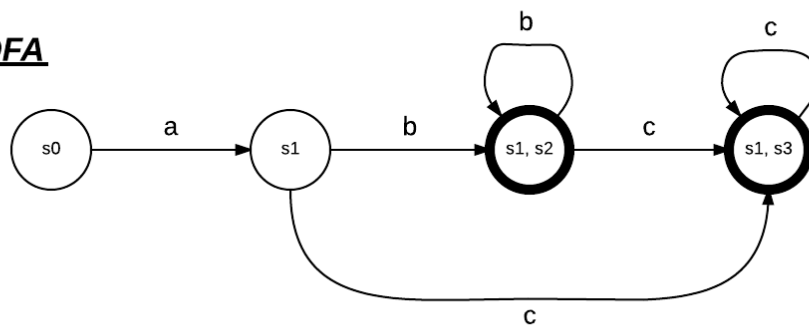
Exercise 3.15:

NFA



	a	b	c
s0	s1	s0 -	s0 -
s1	s1 -	{s1, s2}	{s1, s3}
{s1, s2}	{s1, s2} -	{s1, s2}	{s1, s3}
{s1, s3}	{s1, s3} -	{s1, s3}	{s1, s3}

DFA



DragonBook

Ex 3.3.4:

???