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
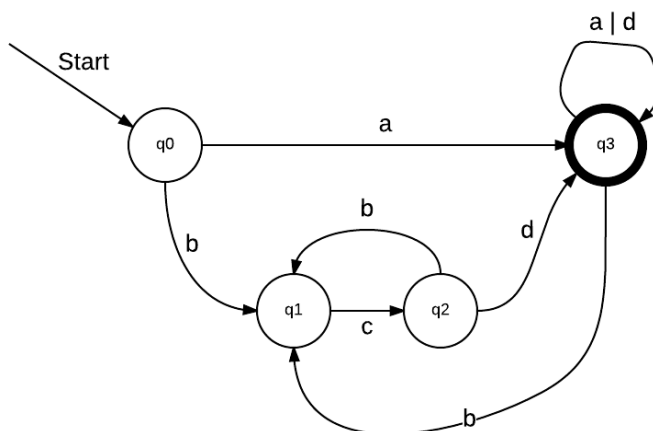
Figure 1: (a (b)* a) | (b (a)* b)

Figure 2: a | (a (bc | c) d a)$^{+}$

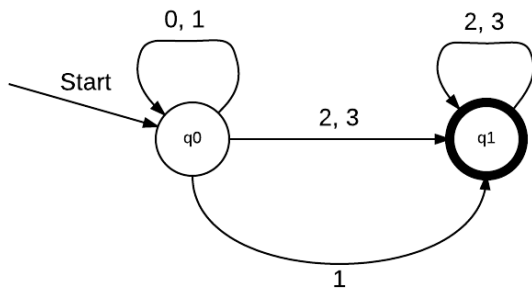**_Figure 3_**: { } | a (b)* c

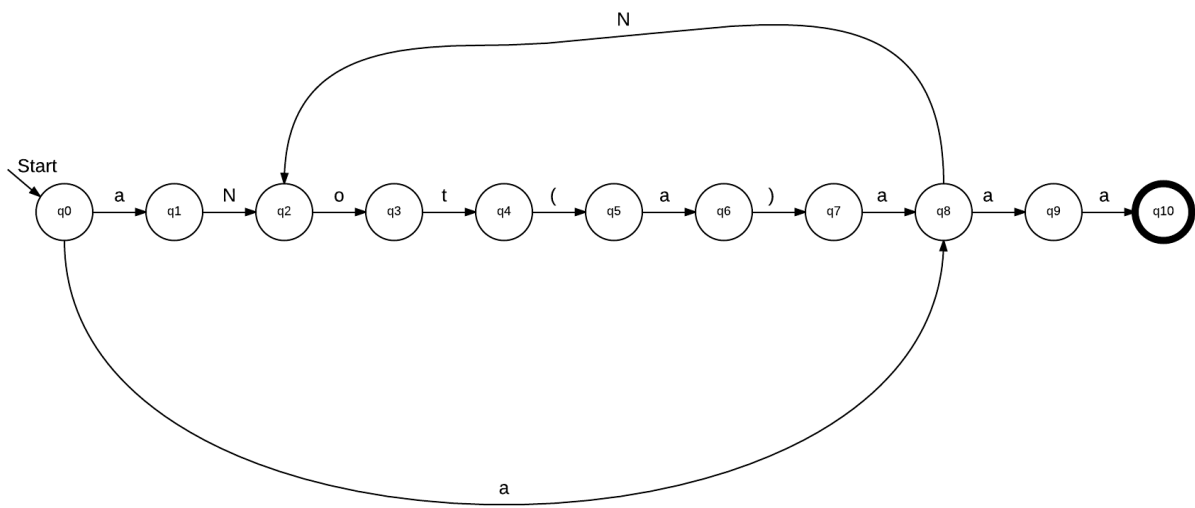**Exercise 3.4:** Write DFA's that recognize the tokens defined by the following regular expressions:
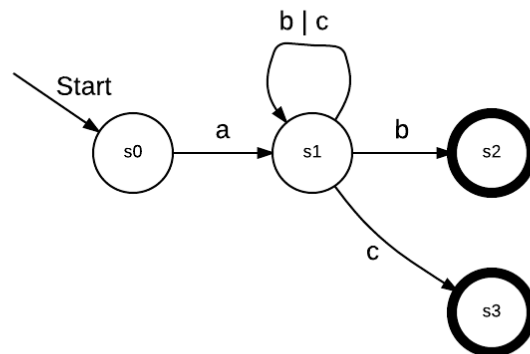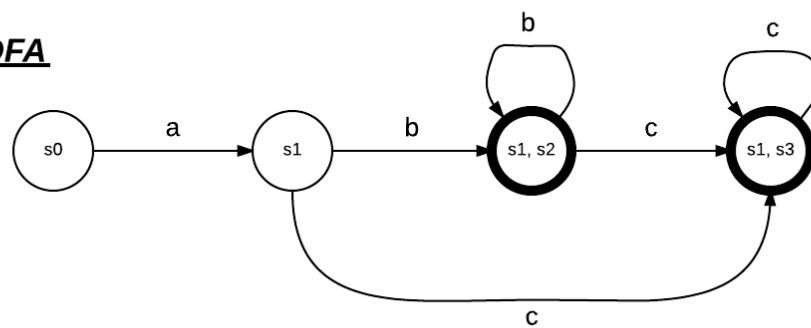
a)

b)

c)

Exercise 3.15:

<u>NFA</u>

	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}

<u>DFA</u>

DragonBook

Ex 3.3.4:

???