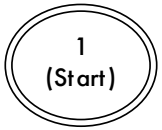
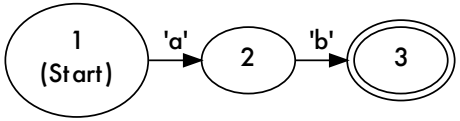
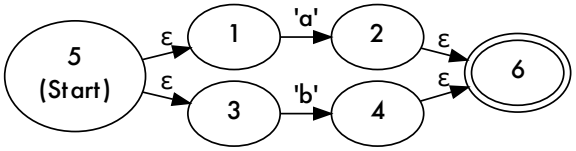
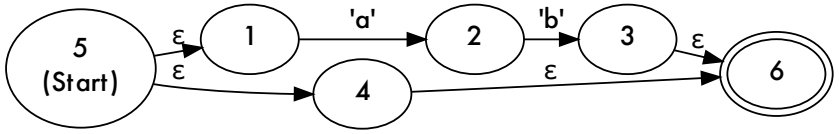
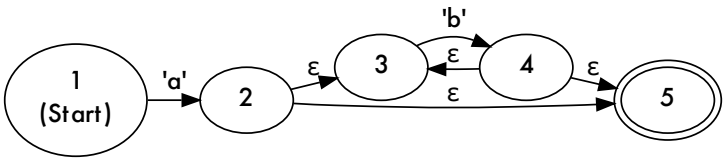
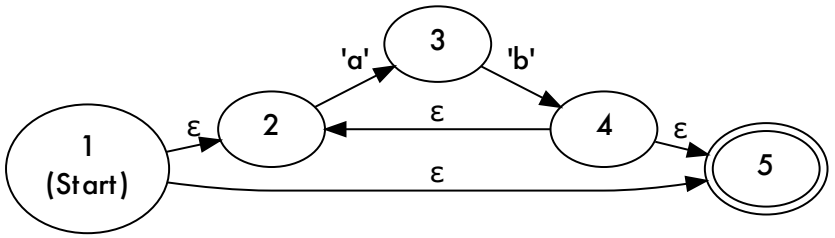
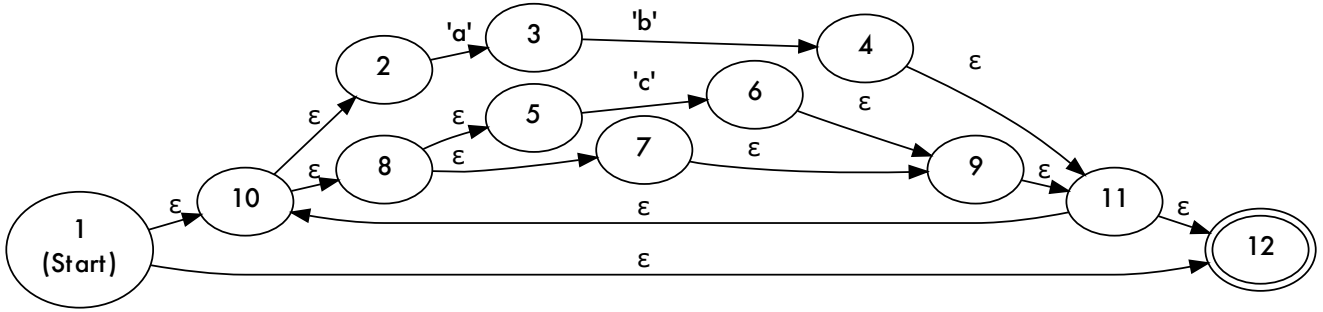
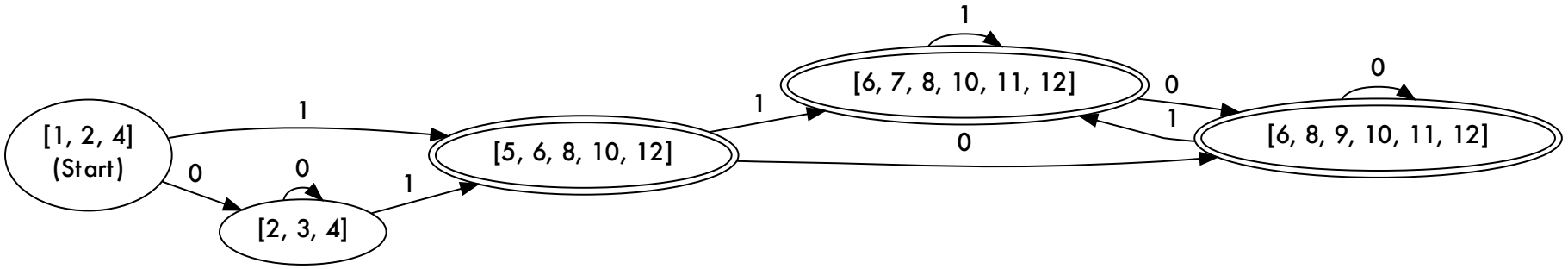
Part 1 (NFA Construction)

Command	NFA
`java Show NFA ''`	
`java Show NFA 'ab'`	
`java Show NFA 'a|b'`	
`java Show NFA 'ab|'`	
`java Show NFA 'ab*'`	

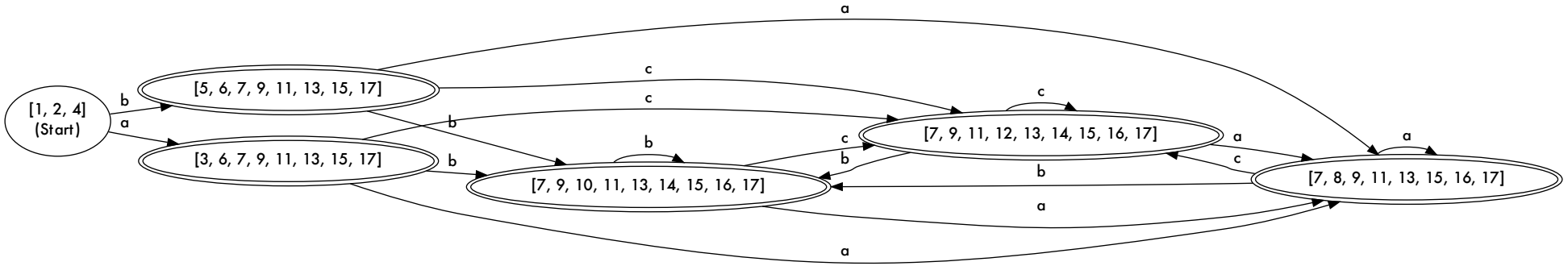
Command	NFA
`java Show NFA '(ab)*'`	
`java Show NFA '(ab|c|)*'`	

Part 2 (DFA Construction)

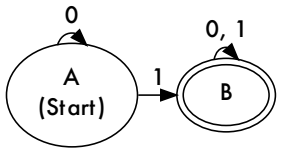
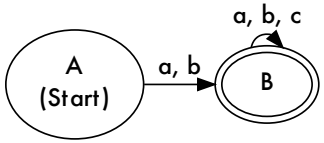
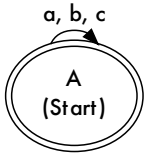
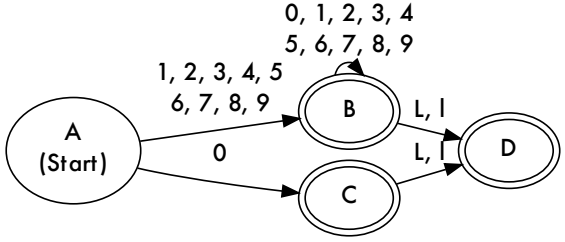
```
java Show DFA-DETAIL '0*1(1|0)*'
```




```
java Show DFA-DETAIL '(a|b)(a|b|c)*'
```



Part 3 (DFA Optimization)

Command	DFA
`java Show DFA-OPT ‘0*1(1|0)*’`	
`java Show DFA-OPT (a|b)(a|b|c)*'`	
`java Show DFA-OPT (a|b|)(a|b|c)*'`	
`java Show DFA-OPT '((0|((1|2|3|4|5|6|7|8|9)((0|(1|2|3|4|5|6|7|8|9))(0|(1|2|3|4|5|6|7|8|9))*|))))((l|L)|))'`	

Part 4 (Tokenization)

```
java Tokenize simple-tok.txt ab.txt

      001:01 A2(aaa)
      001:04 B1(bbaa)
      001:08 A2(aa)
      003:03 A2(aa)
      003:06 B2(bb)
      003:09 A2(aa)
      005:01 A2(a)
      005:02 B2(b)
      005:03 A2(a)
      005:04 B1(bbaa)
      005:08 A1(aabb)
      005:12 A2(a)
      EOF.

cat num.txt | java Tokenize num-tok.txt

      001:01 SpecialNumber(123)
      001:06 DecimalIntegerLiteral(123l)
      001:12 DecimalIntegerLiteral(92399239L)
      001:23 HexIntegerLiteral(0x123l)
      001:31 DecimalIntegerLiteral(0)
      001:32 DecimalIntegerLiteral(987L)
      003:01 HexIntegerLiteral(0x123)
      003:06 DecimalFloatingPointLiteral(.23)
      004:01 DecimalFloatingPointLiteral(23e-123)
      EOF.
```