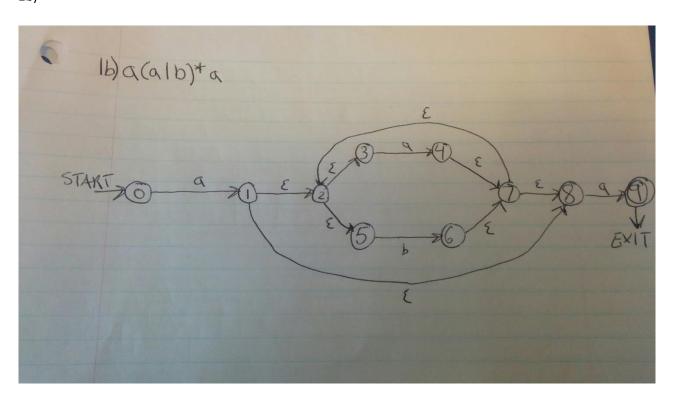
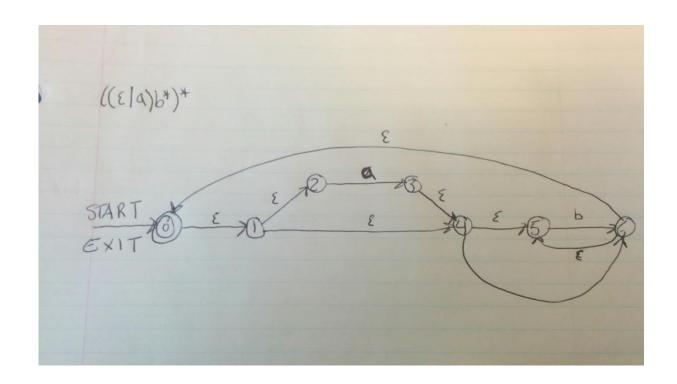
Alexander Marshall - 100487187

1a) a(a|b)*a - denotes the set of all strings that start with 'a' followed by zero or more 'a' or'b' characters and also end with 'a'. {aa, aaa, aba, abba, ...}

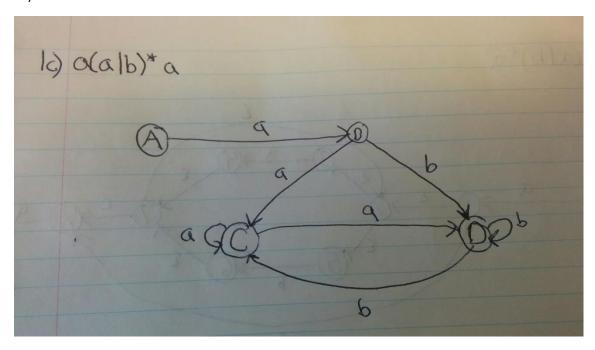
 $((\varepsilon|a)b^*)^*$ - denotes the set of all strings that are made up of sub-strings containing zero or more 'b' characters, starting with an optional 'a' character. $\{\varepsilon, b, ab, bb, abb, bbb, ...\}$

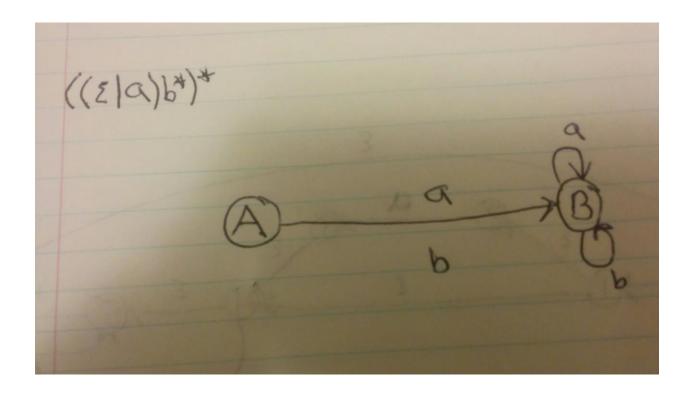
1b)





1c)





- Language given by s* {ε, s, ss, sss, ssss, ... }
 There are n-1 prefixes of s
 There are n-1 suffixes of s
 There are infinite strings with s as a prefix
- 3) (?i)(select | from | where | like)