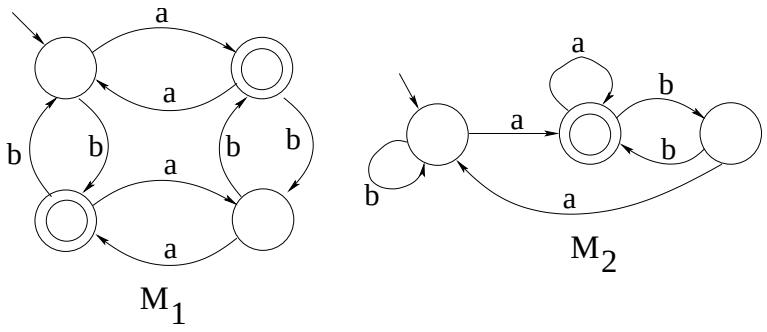
RW324 Tut 2

1.M_1 and M_2 recognize languages L_1 and L_2, respectively. Draw a NFA that will recognize $L_2L_1^*$.



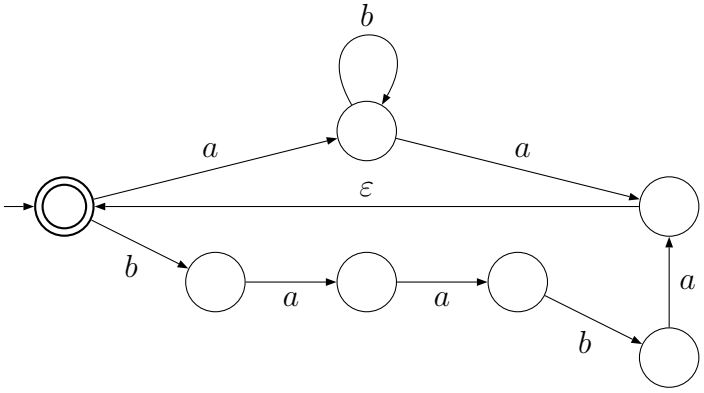
2. Draw a DFA equivalent to the regular expression $0 + 10^* + 01^*0$

3. Find regular expressions corresponding to each of the following subsets of $\{0, 1\}^*$.

(a) The language of all strings that do not end with 01.

(b) The language of all strings in which the number of 0's is even.

4. Find a regular expression corresponding to the following NFA:



5. (a) 1.6(b) in Sipser
(b) 1.7(b) in Sipser
(c) 1.8(b) in Sipser

6. 1.14(b) in Sipser

7. 1.16(b) in Sipser.

8. Draw the minimal DFA equivalent to the following DFA.