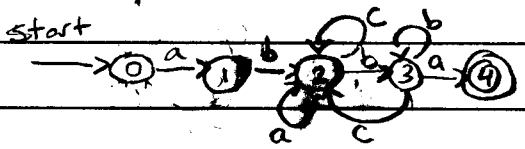
Victoria Mo
COMS W4115
HW 1

2a. strings of a's, b's, & c's s.t. abxbc where x does not contain ba



b. {(0 1 2 3) (4)}

(0 1 2 3)

a -> (0 1 2) (3)

b -> (0 1) (2)

b -> (0) (1)

So (2a) already has the minimal number of states.

c. ① recognizes that it starts w/ a

② recognizes that the second character is b

③ makes sure that X can be a, b, or c

④ makes sure if the last character of x was b, if the next is a, it terminates

d. (ab)((b)*c | (a | c)* b* (ba)