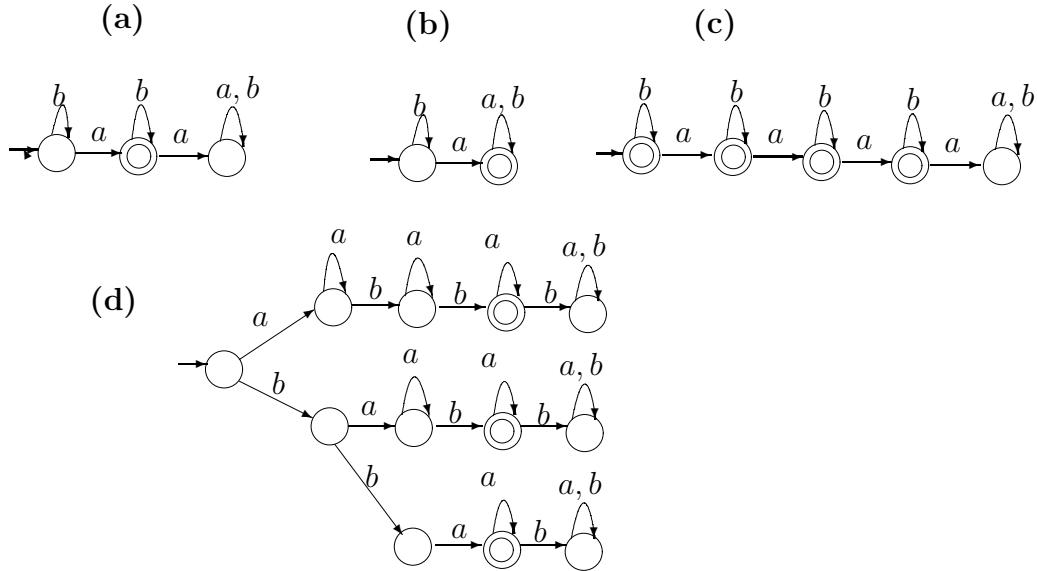


Theory of Algorithms. Spring 2000. Homework 2 Solutions.

Section 2.1

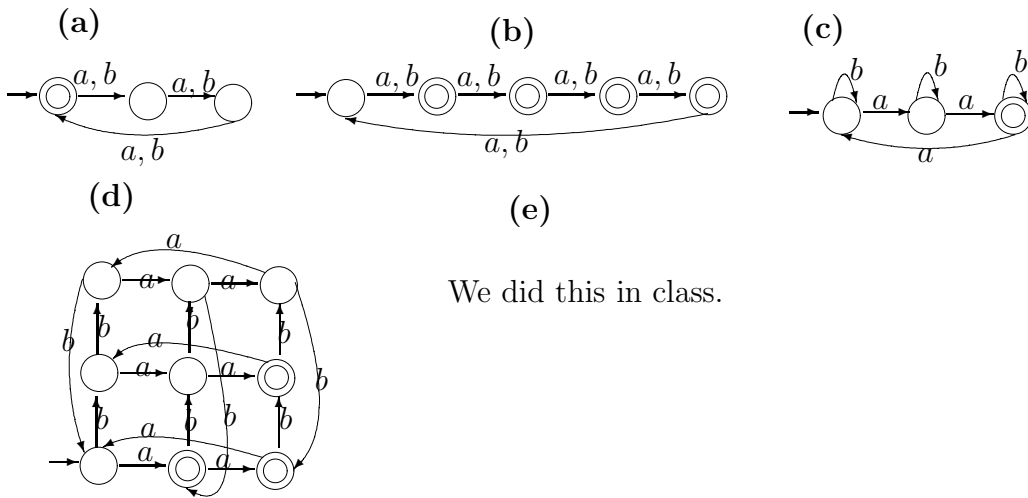
(1) 0001, 01001 are accepted. 0000110 is not.

(2)



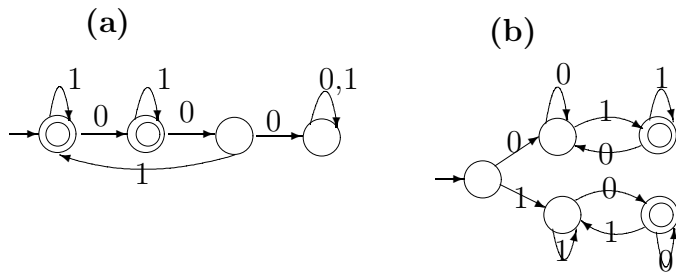
(6) $L(M) = \{b^n ab^m : n, m \geq 0\} \cup \{b^n ab^m awb : n, m \geq 0, w \in \{a, b\}^*\} =$ the set of all strings $w \in \{a, b\}^*$ such that w has at least one a , and if w has more than one a , then w ends with a b .

(7)



We did this in class.

(9)



(c) (d)

These two take up too much space. I'll do them in class.

(11)

