## LFA Suminar 2

**1** 

Societi DFA-mi com sã reumooscã Imbojele mm. perte \$\sum\_{=} 10,15\$

- a) Li = I w I w format door din O J
- 1) L, = 1 | w| 6 2 2 3
- e) L3 = 1 | w, 1 & 2 2 1 )
- d) Ly = 1 w m writing subawanted 110 5
- e) Ls = 1 02 n 1 n > 1 5
- 1) L6 = 1 12n+1 1 n 21 5
- g) Ly = 1 02m 12m+1 1 n, m > 1 5

vx 2

Fix lumbojele  $L_1$  si  $L_7$  de mai devime  $K_1$   $L_8 = 1$  w  $\in \{0,15^*\}$   $\{w_0\} \in 2$   $\mathbb{Z}$  som  $\{w_1\} \in 2$   $\mathbb{Z}_{+1}$   $\mathcal{S}$ 

Faia a worten automate na se avate ca Li, Lz, Lz REG ex 3

Σ = { "/", " \* ", α, L }

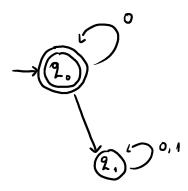
I victi un BFA pt. comentariile line formate peste  $\sum$ 

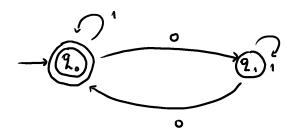
Societi DFA-uni con nã recumossião lumbajele um. perte  $\sum = 10,15$ 

- a) Li = I w I w format door din O J
- L) L₁ = 1 |w| € 2 2 5
- e) L3 = 1 | w, 1 & 2 2 41 }
- d) Ly = 1 w m writing subawanted 110 5
- e) Ls = 1 02 n 1 n > 1 5
- 4) L6 = 1 1 2m+1 1 n > 1 5
- 91 Lz = 1 02m 12m+1 1 n, m = 1 5

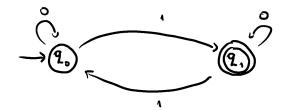
Jol:

a) L, = 1 w 1 w format door din 0 5

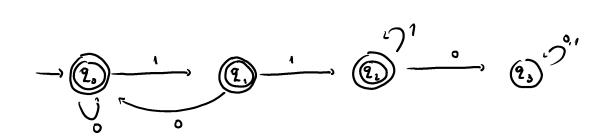




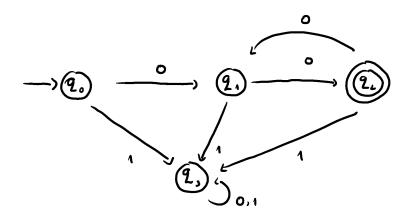
c) L3 = 1 | w1, 6 2 2, 1

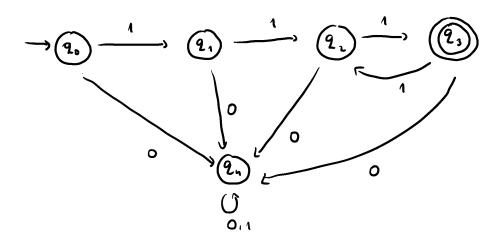


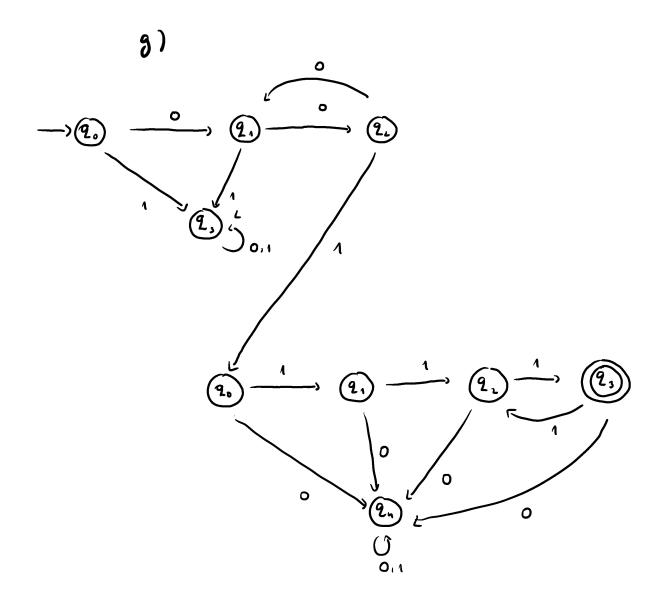
d) Ly = 1 w m writing subawantul 110 5



1) Ls = 1 02n 1 n > 1 5







Fie limbojele 
$$l_1$$
  $s_1$   $l_2$  de mai devenue  $s_1$   $l_2$  =  $l_1$   $w_1$   $l_2$  =  $l_1$   $w_2$   $l_3$   $l_4$   $l$ 

Fora a construi outomate rà re orate cà Li, Lz, Lz REG

## <u>S4</u>

$$L_1 \cdot L_2 = \{ w \mid w = w_1 w_2, w_1 \in L_1, w \in L_2 \}$$

$$L^* = \{ w \mid w = w_1 \dots w_k, w_i \in L_j, k \in \mathbb{N} \}$$

$$= \bigcup_{k \in \mathbb{N}} L^k$$

Dim 12 1 ytim va 
$$l_s$$
,  $l_6 \in REG$ 

$$l_8 = l_s \cup l_6$$

$$l_4 \in REG$$

$$l_4 = l_5 \cdot l_6$$

I victi un DFA pt. comentarile line formate peste  $\Sigma$ 

Exemple

