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DFA / NFA /  ~~$\Sigma$ -NFA~~

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24/06/2022

$\rightarrow$

$\text{ROR}(L) = \{$

$aw \mid wa \in L$

$L$  è reg.  $\rightarrow$  ROR  
è regolare

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~~DFA~~ D!

D' stesso inizio di  $\Delta$

$D$  è DFA che riconosce  $L$

$\delta$  (TRANS.)



- DFA legge tutti i w  
(tutti gli input)

- arrivare al simbolo finale  
(stesso n. di volte  
in cui lo operato)

- contare i simboli

- uma volta completa  
procedo ao input suc.

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$Q \times$   
 $[Q] \times$

$Q, Q$

$$\begin{aligned} & \delta((q, Q), q_0) \\ &= \delta(q, Q, q_0) \end{aligned}$$

$$\begin{aligned} Q_0 &= Q_0' & \downarrow \\ F &= F_1 \times F_2 & Q \end{aligned}$$

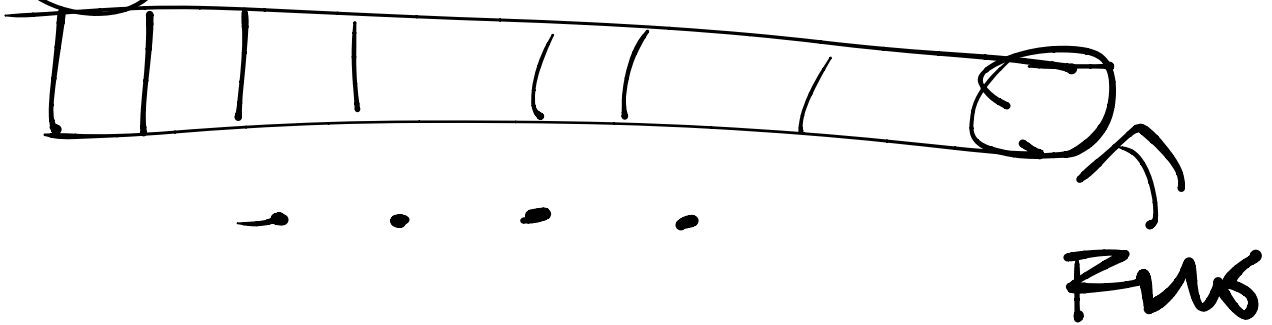
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TM

TM<sub>VAR</sub> — TM<sub>NS</sub>

NASTRO SW GOLD

⓪ → 85 STIMA

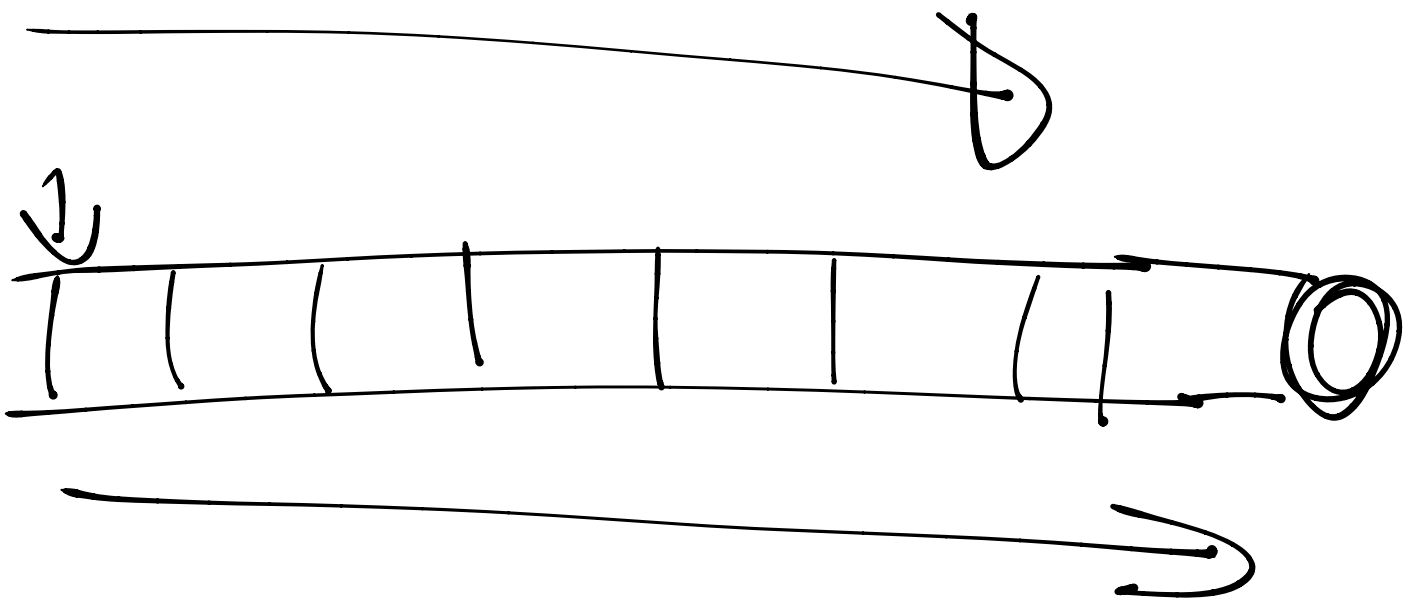


F. D1 VR.  $\nabla \nabla$

$\sigma: Q \times \Gamma \rightarrow Q \times \Gamma$   
           $\uparrow$   
          (NABLA)  $\times$   
                   $\{L, R\}$   
           $\nearrow$   
          NORRUS

$\delta: Q \times \Gamma \mapsto$   
 $\{Q \times \Gamma \times \{\uparrow, \downarrow, \leftarrow, \rightarrow\}\}$   
 VARIANTS

$TM_{SWG} \rightarrow TM$   
 $\{\uparrow, \downarrow, \leftarrow, \rightarrow\}$



① CONF. SUL NASCIMENTO  
 # - . . . . . #  
 CONFUSI = #

STATISTICS

$$\begin{aligned} \mathcal{J} : Q \times T &\mapsto \\ [Q \times T \times \{A, B, N, Y\}] \end{aligned}$$

$$TM \text{ sing} \rightarrow A \delta N y$$

$$y \delta A \rightarrow SI$$

$$NAY \rightarrow NO$$

$$2^4 = 16 \text{ comb.}$$

$$\text{di } \{A, B, N, Y\}$$

TM

# # w # #

→ (L)

$Q(M, Q) = \{Q, bL\}$

→ USGG e VQTHC  
CHS BLAND 3 SYMBOL

→ MARCO SE  
NON SOLO "YKA"  
OPPURE "NAY"

→ (R)

→ SCRW E WRTTHO

CHS STAND 3 SYMBOL

→ MARCO ON " " " "

→ VADO AVANTI

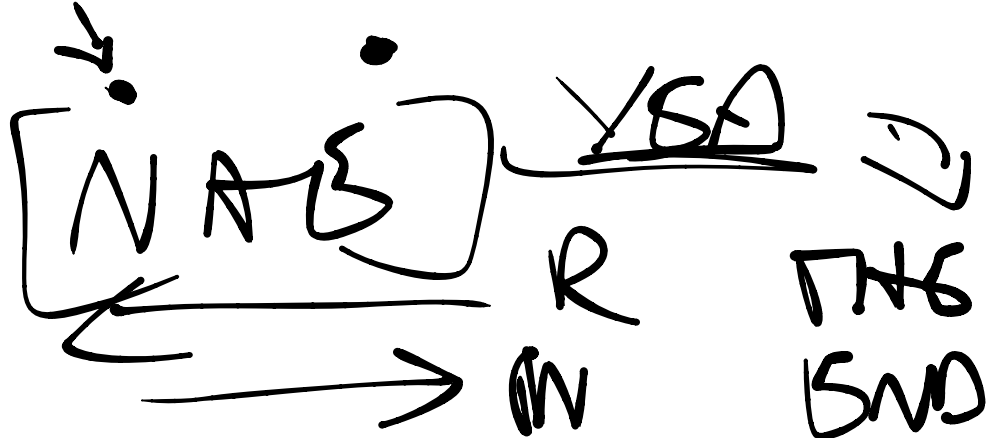
FIN CHS

✓  
✓  
NAY

(RESPECT)

✓  
YEA

(ACCEPT)



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{R2, L3}

Q: Q X T



$$Q \times T \times \{R2, L3\}$$

$$TM_{\text{INIZIO}} \leq TM_{L3R2}$$

$$\begin{array}{ccc} \downarrow & \xrightarrow{\quad} & D \times (\infty) \\ \boxed{1} & \xrightarrow{\quad} & \\ \uparrow & L1 \approx \text{---} & (S \& M - INF) \end{array}$$

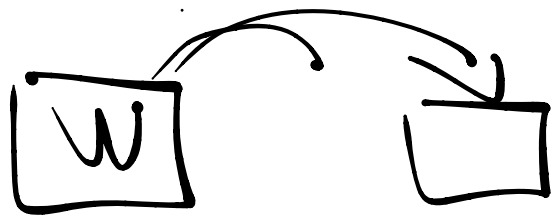
$$\{L, R\}$$

$$\{L3, R2\}$$

- SE INIZIO NASCO

$$\bullet (L3, S, R2)$$

$$- \delta(17, e) = \delta(q, b, l2)$$



- scriviamo ~~lungo~~  $W$  (input)

= mi sposta a  $l2$   
di 2 celle

// STB ~~SSO~~ POR L3

$$\delta(17, e) = \delta(q, b, l3)$$

- ~~il~~ inizio nuovo  
= non ti muovere!

< ~~de~~ no

- scrivi  $W$

= muovi come  $l3$

✓  
ACCEPT

✓  
REJECT

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DISCIBLES

