

$$D = \langle \Sigma, Q, q_0, F, \delta \rangle$$

- Σ : ALFABETO
- Q : insieme di stati
- $q_0 \in Q$: stato iniziale
- $F \subseteq Q$: stati finali
- $\delta: Q \times \Sigma \rightarrow Q$

CONFIGURAZIONI $\times D$

q ed ...

001

$$[q_0 001] \vdash [q_0 01] \vdash [q_0 1] \vdash [q_1 \epsilon]$$

$\rightarrow$ COMPUTAZIONE PARZIALE PER D

SO UNA STRINGA $w = w_1 \dots w_m \in \Sigma^m$
UNA SEQUENZA DI $m+1$ CONFIGURAZIONI
CON $m \leq n$

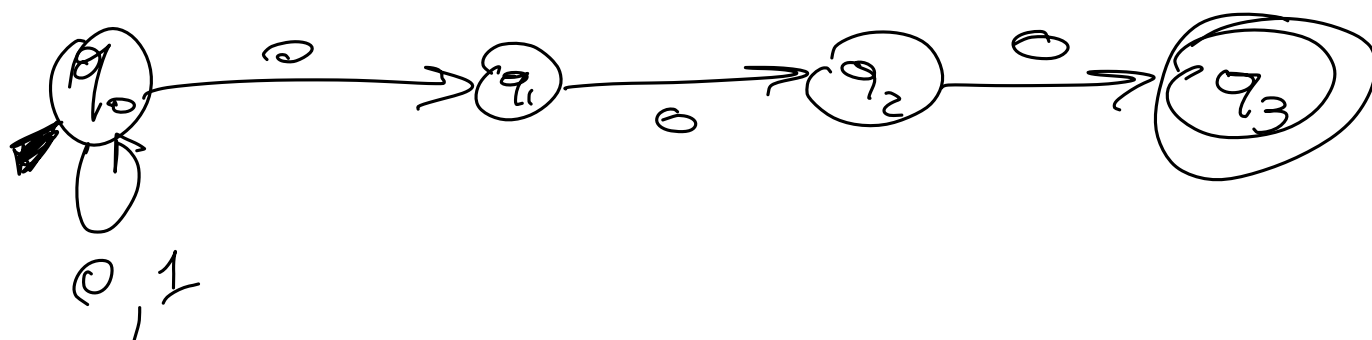
$$[r_0 w_1 \dots w_m], [r_1 w_2 \dots w_m], \dots, [r_m w_{m+1} \dots w_m]$$

- $r_0 = q_0$ (START CORRECT)

- $r_{i+1} = \delta(r_i, w_{i+1}) \quad \forall 0 \leq i \leq m-1$

$$L = (0|1)^* 000$$

$$01000$$



$$N = \langle \Sigma, Q, q_0, F, \delta \rangle$$

$$\text{DET} \Rightarrow \delta: Q \times \Sigma \rightarrow Q$$

$$\text{Nondet} \Rightarrow \delta: Q \times \Sigma \rightarrow 2^Q$$

$$01000$$

$$q_0 01000 \vdash q_0 1000 \vdash q_0 000 \vdash q_1 00 \vdash q_2 0$$

$$\vdash q_3 \epsilon$$

$$q_0 01000 \vdash q_1 0000$$

$$\Sigma = \{a, b\} \quad L = \{a^m b^m \mid m \geq 0\}$$