Q states "A", "B", "C"

Σ alphabet 'a', 'b', 'c',

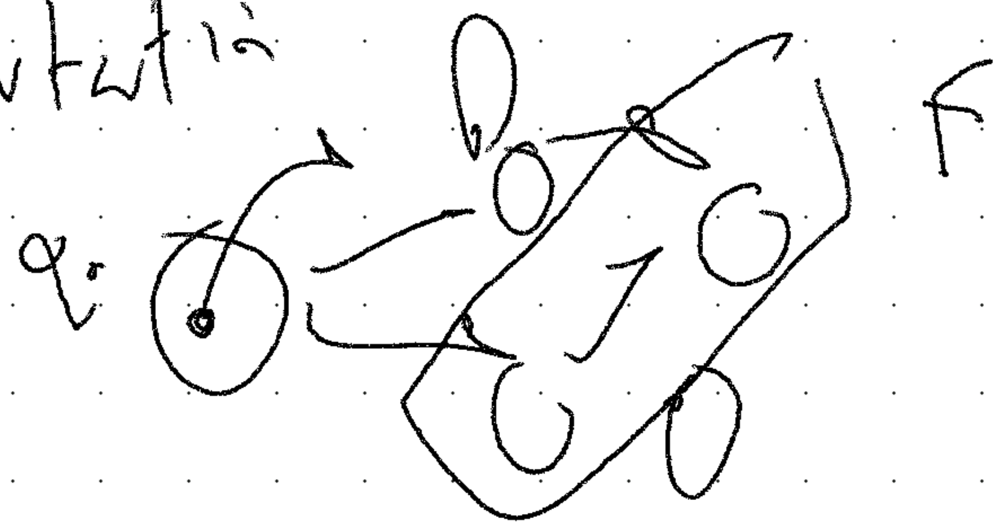
Δ transition $Q \times \Sigma \to Q$

$$A \xrightarrow{\text{"b"}} B$$

$q_0 \in Q$

$F \subseteq Q$ accept states

Computation



the "input" is a string over Σ,

Σ^* ← notation

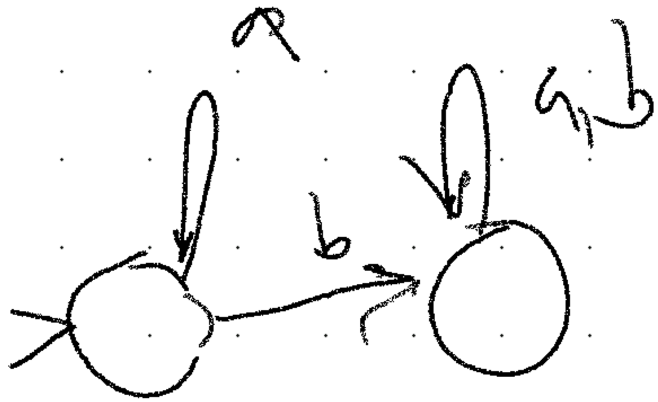
$s \in \Sigma^* \longrightarrow \boxed{M} \longrightarrow$? output Y/N

$\Sigma = \{a, b\}$

machine accepts

abaaabba

$L \subseteq \Sigma^*$ language



$Q = \{A, B\}$

$\Sigma = \{a, b\}$

$q_0 = A$

$\bigcirc \in F$

$F = \{A\}$

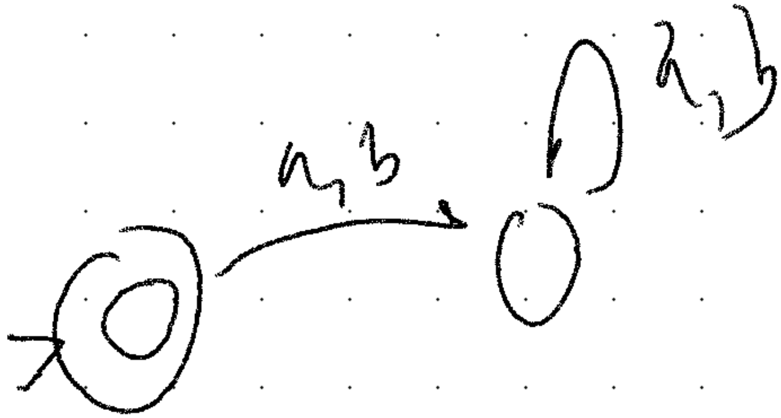
$aab \notin L$

$aa \in L$

$\varepsilon \in L$

$F = \emptyset$

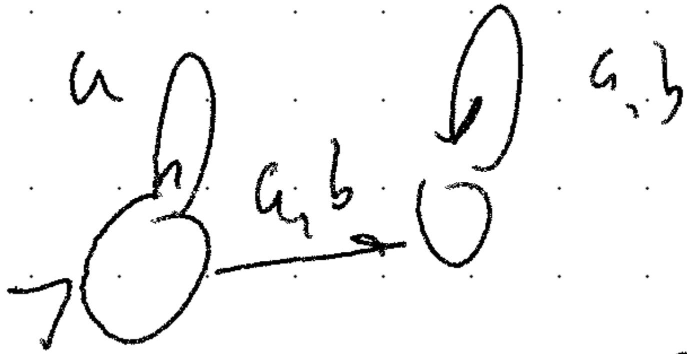
$L = \Sigma^*$



$L = \{\varepsilon\}$

$\emptyset$ empty set

ε empty string



because $F = \emptyset$, $L = \emptyset$

because $F = Q$, $L = \Sigma^*$