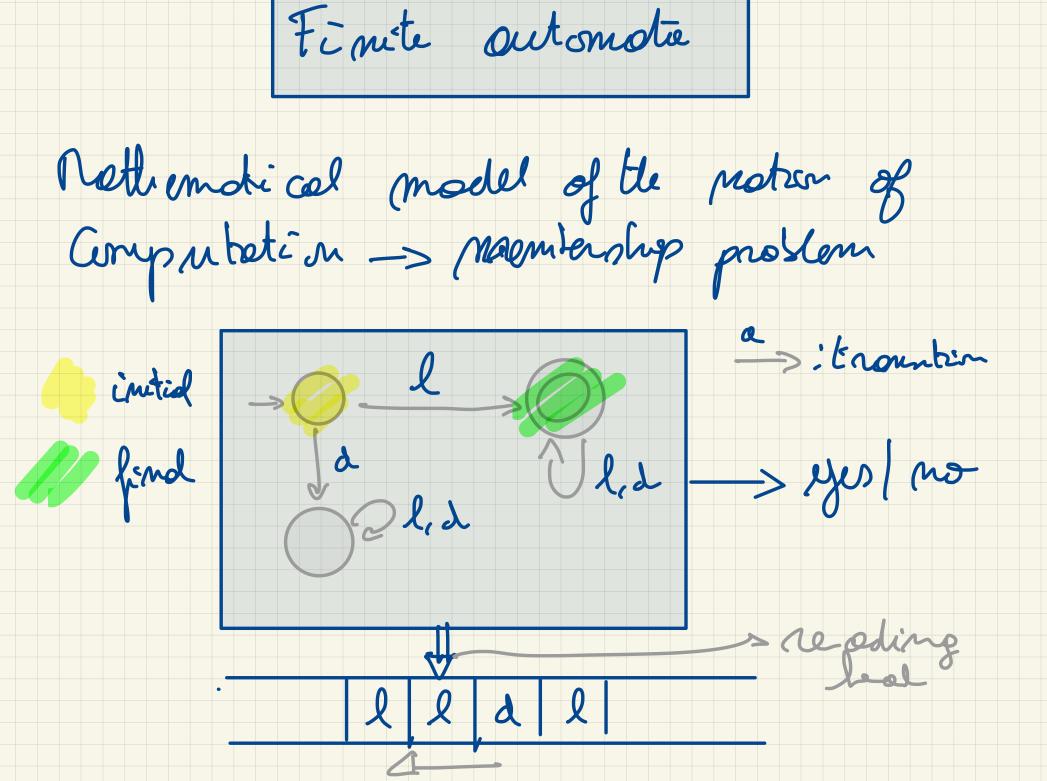
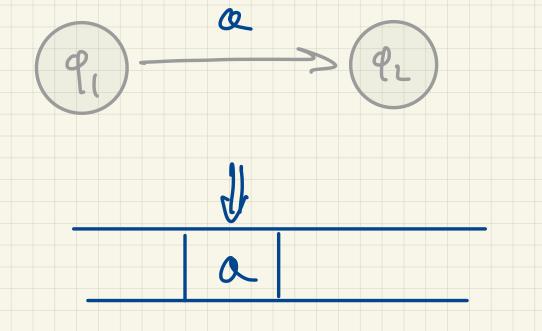
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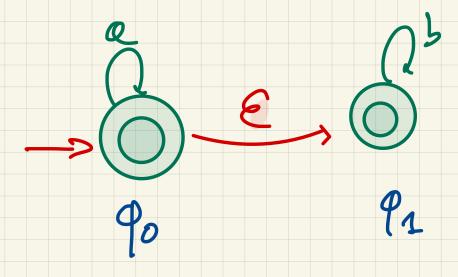
If we read on accepting state The we read the pettern, so If the and hier the pattern, we can accept it by smilling the proper path.

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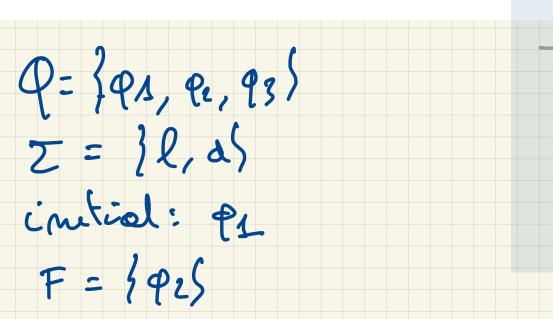
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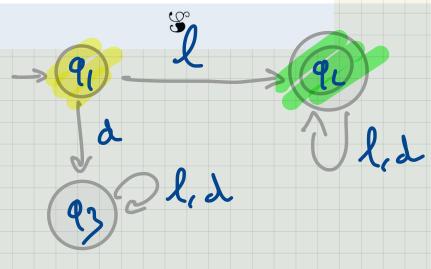
Definition 2.5 (Finite automaton). A finite automaton is a tuple:

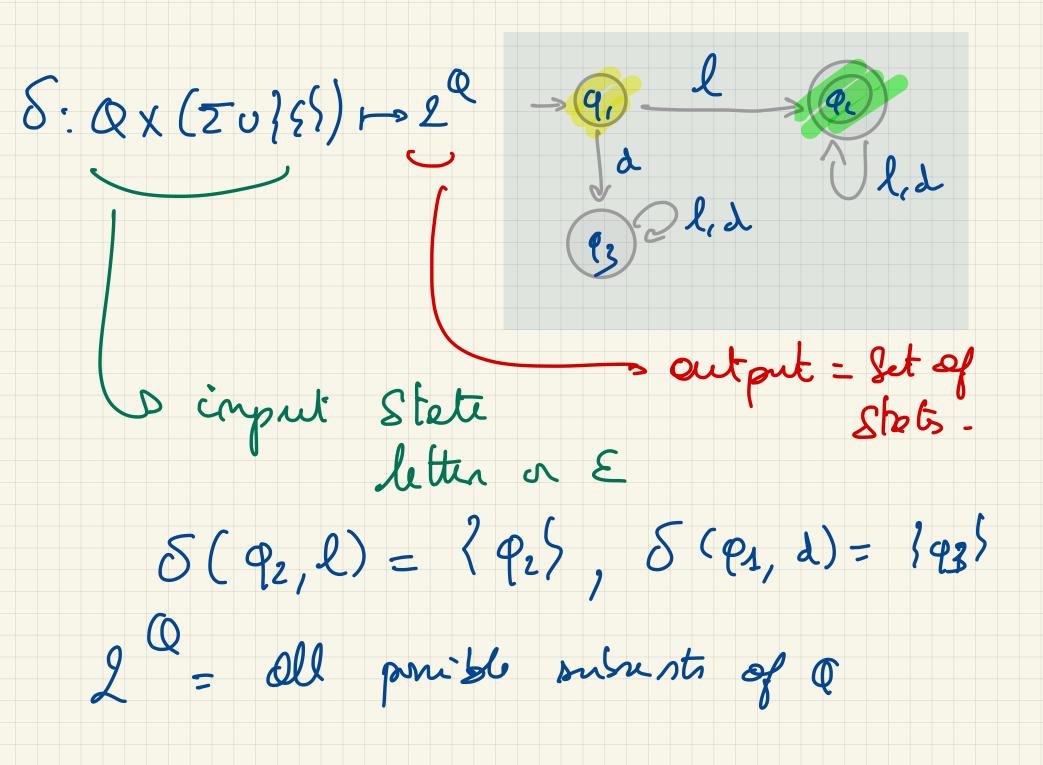
$$A = \langle Q, \Sigma, \delta, q_0, F \rangle$$

where:

- 1. *Q* is a finite set of states;
- 2. Σ is the (finite) input alphabet;
- 3. $\delta: Q \times (\Sigma \cup \{\varepsilon\}) \mapsto 2^Q$ is the transition function;
- 4. $q_0 \in Q$ is the initial state;
- 5. $F \subseteq Q$ is the set of accepting states.







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Several dans of FA

- E-NFA

= (Most general class

non-det and E-transkions

ore allawed.

- NFA E-t nountion one not oblowed $<math>S(q, E) = \varphi$ frollstate p. - DFA = M

= No E-Eronntin, no non-det $\varphi \in Q$ |S(q,a)|=1 froll QEZ 3 done of outomota E- NFA.

