EDIDIONG IME-ESSIEN

CSC 304

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PART 4

31. Automata theory is the study of abstract machines and automata, as well as the computational problems that can be solved using them. It is a theory in theoretical computer science. n automaton can be represented by a 5-tuple (Q, ∑, δ, q0, F), where −

* Q is a finite set of states.
* ∑ is a finite set of symbols, called the alphabet of the automaton.
* δ is the transition function.
* q0 is the initial state from where any input is processed (q0 ∈ Q).
* F is a set of final state/states of Q (F ⊆ Q).







