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Hence, it is called Non-deterministic Automaton.

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Introduction to Automata Theory, Languages, and Computation (third edition), by John Hopcroft, Rajeev Motwani, Jeffrey Ullman, Addison Wesley, 2007. ... Purpose of the Theory of Computation: Develop formal mathematical models of computation that reflect real-world computers.

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### **Automata theory - Wikipedia**

Introduction • What follows is an extremely abbreviated look at some of the important ideas of the general areas of automata theory, computability, and formal languages. In various respects, this can be thought of as the elementary foundations of much of computer science. The area also includes a wide variety of tools, and general categories ...

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