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In theoretical computer science and mathematics, the theory of computation is the branch that deals with what problems can be solved on a model of computation, using an algorithm,

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how efficiently they can be solved or to what degree. The field is divided into three major branches: automata theory and formal languages, computability theory, and computational complexity theory, which are linked by the question: "What are

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the fundamental capabilities and limitations of computers?". In order to perf

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~~Wikipedia~~

Automata theory (also known as Theory Of Computation) is a

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theoretical branch of Computer Science and Mathematics, which mainly deals with the logic of computation with respect to simple machines, referred to as automata. Automata\* enables the scientists to understand how machines compute the functions

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and solve problems.

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The Theory of Computation is a scientific discipline concerned with the study of general properties of computation be it

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natural, man-made, or imaginary. Most importantly, it aims to understand the nature of efficient computation.

~~Theory of computation Carnegie Mellon University~~

Theory of computation is the



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branch that deals with how efficiently problems can be solved on a model of computation, using an algorithm. The field is divided into three major branches: automata theory and languages, computability theory, and computational complexity theory.

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Theory of Computation- Lecture  
Notes Michael Levet August 27,  
2019 Contents 1 Mathematical

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Preliminaries 3 ... (graph theory), equivalence relations, orders (such as partial orders), and functions. In this section, functions, asymptotics, and equivalence relations will be discussed.

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Textbook: Introduction to the Theory of Computation, 3rd edition, Sipser, published by



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Cengage, 2013. It has an errata web site. You may use the 2nd edition, but it is missing some additional practice problems. You may use the International Edition, but it numbers a few of the problems differently.

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CSC 434 Theory of Computation

Mid Term Examination Attempt all questions Exercise 1 a. Explain the theory of Computation. b.

What do you understand by Automata theory? Exercise 2

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Explain the following terms; i. Additive inverse ii. Multiplicative inverse iii. Absorption law  
Exercise 3 a. State the conditions for the following sets i. Relation

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Theoretical computer science (TCS) is a subset of general computer science and mathematics that focuses on mathematical aspects of computer science such as the theory of computation, lambda calculus, and type theory.. It is

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difficult to circumscribe the theoretical areas precisely. The ACM's Special Interest Group on Algorithms and Computation Theory (SIGACT) provides the following description:

~~Theoretical computer science~~

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~~Wikipedia~~

'Theory of Computation' or 'Theory of Automata' is the core area of computer science and engineering; it is the branch that aims to attempts the deep understanding of computational processes by means of effectively

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solving the problems via mathematical models, tools, and techniques.

~~Theory of Computation : areas, history & importance ...~~

Theory of Computation.

Lecture-01 What is theory of

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computation? Set membership problem, basic notions like alphabet, strings, formal languages.

~~Theory of Computation~~ NPTEL  
Theory of automata is a theoretical branch of computer



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science and mathematical. It is the study of abstract machines and the computation problems that can be solved using these machines. The abstract machine is called the automata. An automaton with a finite number of states is called a Finite

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automaton. In this tutorial, we are going to learn how to construct deterministic finite automata, non-deterministic finite automata, Regular expression, context-free grammar, context-free language ...

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In computer science, the theory of computation provides a sort of "unified field theory" of how computers work. It uses the elements of automatic theory, computability theory and

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computational complexity theory to understand the nature of computing problems and how computing operations are performed. Techopedia explains Theory of Computation

~~What is the Theory of~~

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Complexity Theory (7 weeks)  
Time and space measures,  
hierarchy theorems, complexity  
classes P, NP, L, NL, PSPACE, BPP  
and IP, complete problems, P  
versus NP conjecture, quantifiers  
and games, provably hard

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problems, relativized computation and oracles, probabilistic computation, interactive proof systems. Possible advanced topic as time permits.

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