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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 how efficiently they can

jan 16 2026 automata theory also known as the theory of computation is a field within  
computer science and mathematics that focuses on studying abstract machines to  
understand the capabilities

theory of computation course description this course emphasizes computability and  
computational complexity theory

this course is on the theory of computation which tries to answer the following  
questions what are the mathematical properties of computer hardware and soft ware  
what is a computation and what is an

harvard has had a long history of groundbreaking research in the theory of computation to also known as theoretical computer science this field addresses the mathematical laws that govern

the theory of computation is concerned with algorithms and algorithmic systems their design and representation their completeness and their complexity

we will begin the course with very simple models of computation finite automata regular expressions context free grammars and related models and later on we will discuss more powerful

jan 13 2026 theory of computation to is the part of computer science that studies which problems computers can solve how they solve them and how efficiently they can do it studies

cs 332 elements of the theory of computation spring 2026 course overview this course is an introduction to the theory of computation this is the branch of computer science that aims to

the theory of computation is defined as the study of what can be computed and the limits of computation established through different models such as church's lambda calculus and turing

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