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p versus np problem wikipedia

the p versus np problem is a major unsolved problem in theoretical computer science in informal terms it asks whether every problem whose solution can be quickly verified can also be quickly solved the informal term quickly used above means the existence of an algorithm solving the task that runs in polynomial time such that the time to complete the task varies as

mathematics wikipedia

mathematics is an area of knowledge that includes topics as numbers formulas and related structures shapes and the spaces in which they are contained and quantities and their changes these topics are represented in modern mathematics with the major subdisciplines of number theory algebra geometry and analysis respectively most mathematical activity involves the

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deterministic finite automaton wikipedia

formal definition a deterministic finite automaton m is a 5 tuple $q, \Sigma, \delta, q_0, f$ consisting of a finite set of states q a finite set of input symbols called the alphabet Σ an initial or start state q_0 a set of accept states f let $w = a_1 a_2 \dots a_n$ be a string over the alphabet Σ the automaton m accepts the string w if a sequence of states $r_0 r_1 \dots r_n$ exists in q with the

pushdown automaton wikipedia

in the theory of computation a branch of theoretical computer science a pushdown automaton pda is a type of automaton that employs a stack pushdown automata are used in theories about what can be computed by machines michael sipser 1997 introduction to the theory of computation pws publishing

halting problem wikipedia

in computability theory the halting problem is the problem of determining from a description of an arbitrary computer program and an input whether the program will finish running or continue to run forever alan turing proved in 1936 that a general algorithm to solve the halting problem for all possible program input pairs cannot exist for any program f that might determine

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chomsky hierarchy wikipedia

in formal language theory computer science and linguistics the chomsky hierarchy also referred to as the chomsky schützenberger hierarchy is a containment hierarchy of classes of formal grammars this hierarchy of grammars was described by noam chomsky in 1956 it is also named after marcel paul schützenberger who played a crucial role in the development of

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computational complexity theory wikipedia

in theoretical computer science and mathematics computational complexity theory focuses on classifying computational problems according to their resource usage and relating these classes to each other a computational problem is a task solved by a computer sipser michael 2006 introduction to the theory of computation

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turing machine wikipedia

a turing machine is a mathematical model of computation describing an abstract machine that manipulates symbols on a strip of tape according to a table of rules despite the model s simplicity it is capable of implementing any computer algorithm the machine operates on an infinite memory tape divided into discrete cells each of which can hold a single symbol drawn

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automata theory is the foundation of computer science its applications
have spread to almost all areas of computer science and many other
disciplines in addition there is a growing number of software systems
designed to manipulate automata

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journalism of rotating fox news anchors reporters and producers

computational complexity wikipedia

complexity theory seeks to quantify the intrinsic time requirements of
algorithms that is the basic time constraints an algorithm would place on
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