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A Turing machine is a mathematical model of computation that defines an abstract machine, which manipulates symbols on a strip of tape according to a table of rules. Despite the model's simplicity, given any computer algorithm, a Turing machine capable of simulating that algorithm's logic can be constructed.. The machine operates on an infinite memory tape divided into discrete cells.

Turing machine - Wikipedia

Computational complexity theory is a branch of the theory of computation in theoretical computer science that focuses on classifying computational problems according to their inherent difficulty, and relating the resulting complexity classes to each other. A computational problem is understood to be a task that is in principle amenable to being solved by mechanical application of mathematical ...

Computational complexity theory - Wikipedia

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