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A function takes an input and produces an output. In every function, the same input always produces the same output. If f is afunction whose output value is b when the input value is a, we writef (a) = b. A function also is called a mapping, and, if f (a) = b, we say that f maps a to b.

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Elements of the theory of computation (Prentice Hall, 1981); and Sipser's Introduction to the theory of computation (PWS Publishing, 1997). All three of these sources have influenced the presentation of the material in Chapters 7 and 8. These notes are an on-going project, and I will be grateful for feedback and criticism from readers.

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This book is an introduction to the theory of computation. After a chapter presenting the mathematical tools that will be used, the book examines models of computation and the associated languages, from the most elementary to the most general: finite automata and regular languages; context-free languages and push-

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

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