

6. (a) For every number $k \geq 0$, let f_k be the constant function $f_k(x) = k$. Show that for every k , f_k is computable.
- (b) Let us call an \mathcal{S} program a *straightline program* if it contains no (labeled or unlabeled) instruction of the form IF $V \neq 0$ GOTO L . Show by induction on the length of programs that if the length of a straightline program \mathcal{P} is k , then $\psi_{\mathcal{P}}^{(1)}(x) \leq k$ for all x .
- (c) Show that, if \mathcal{P} is a straightline program that computes f_k , then the length of \mathcal{P} is at least k .
- (d) Show that no straightline \mathcal{S} program computes the function $\text{fact}(x) = x \cdot (x-1) \cdot \dots \cdot 1$. Conclude that the class of functions computable by straightline \mathcal{S} programs is contained in but is not equal to the class of computable functions.
7. Let us call an \mathcal{S} program \mathcal{P} *forwardbranching* if the following condition holds for each occurrence in \mathcal{P} of a labeled or unlabeled instruction of the form IF $V \neq 0$ GOTO L : If IF $V \neq 0$ GOTO L is the i th instruction in \mathcal{P} , then either L does not appear as the label of an instruction in \mathcal{P} , or else, if j is the least number such that L is the label of the j th instruction in \mathcal{P} , then $i < j$. Show that a function is computed by some forwardbranching program if and only if it is computed by some straightline program (see Exercise 6).
8. Let us call a unary function $f(x)$ *partially ω -computable* if it is computed by some \mathcal{S} program \mathcal{P} such that \mathcal{P} has no more than ω instructions, every variable in \mathcal{P} is among X, Y, Z, \dots, Z_ω , and every label in \mathcal{P} is among A, \dots, A_ω, B .
 - (a) Show that if a unary function is computed by a program with no more than ω instructions, then it is partially ω -computable.
 - (b) Show that for every $n \geq 0$, there are only finitely many distinct partially ω -computable unary functions.
 - (c) Show that for every $n \geq 0$, there are only finitely many distinct unary functions computed by \mathcal{S} programs of length no greater than n .
 - (d) Conclude that for every $n \geq 0$, there is a partially ω -computable unary function which is not computed by any \mathcal{S} program of length less than n .

9. More about ω -computable

In Section 2 we gave some examples of ω -computable functions (i.e., $\omega \leq x$, $x \leq \omega$) giving their corresponding sources. Now we consider this process in general.

Computability Complexity And Languages Solution Manual

Cristopher Moore, Stephan Mertens



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An Introduction to Formal Languages and Automata Peter Linz, 2006 Data Structures Theory of Computation *Subject Guide to Books in Print*, 1993 *Books in Print*, 1994 **The Nature of Computation** Christopher Moore, Stephan Mertens, 2011-08-11 The boundary between physics and computer science has become a hotbed of interdisciplinary collaboration In this book the authors introduce the reader to the fundamental concepts of computational complexity and give in depth explorations of the major interfaces between computer science and physics **A Course in Formal Languages, Automata and Groups** Ian M. Chiswell, 2008-11-14 This book is based on notes for a master s course given at Queen Mary University of London in the 1998 9 session Such courses in London are quite short and the course consisted essentially of the material in the first three chapters together with a two hour lecture on connections with group theory Chapter 5 is a considerably expanded version of this For the course the main sources were the books by Hopcroft and Ullman 20 by Cohen 4 and by Epstein et al 7 Some use was also made of a later book by Hopcroft and Ullman 21 The ulterior motive in the first three chapters is to give a rigorous proof that various notions of recursively enumerable language are equivalent Three such notions are considered These are generated by a type 0 grammar recognised by a Turing machine deterministic or not and defined by means of a Godel numbering having defined recursively enumerable for sets of natural numbers It is hoped that this has been achieved without too many arguments using complicated notation This is a problem with the entire subject and it is important to understand the idea of the proof which is often quite simple Two particular places that are heavy going are the proof at the end of Chapter 1 that a language recognised by a Turing machine is type 0 and the proof in Chapter 2 that a Turing machine computable function is partial recursive *Computation in Language Text Analysis* Michael Stephen Mepham, 1973 *Mathematical Reviews*, 1994 *Scientific and Technical Aerospace Reports*, 1980 *Theory and Applications of Models of Computation* T.V. Gopal, Gerhard Jäger, Silvia Steila, 2017-04-13 This book constitutes the refereed proceedings of the 14th Annual Conference on Theory and Applications of Models of Computation TAMC 2017 held in Bern Switzerland in April 2017 The 45 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 103 submissions The main themes of TAMC 2017 have been computability computer science logic complexity algorithms and models of computation and systems theory **Forthcoming Books** Rose Arny, 1997 **A Manual and Course of Study for Teachers of Arithmetic** John Charles Stone, James Franklin Millis, 1914 *Computability, Complexity, and Languages* Martin Davis, Ron Sigal, Elaine J. Weyuker, 1994-03-18 *Computability Complexity and Languages* is an introductory text that covers the key areas of computer science including recursive function theory formal languages and automata It assumes a minimal background in formal mathematics The book is divided into five parts Computability Grammars and Automata Logic Complexity and Unsolvability Computability theory is introduced in a manner that makes maximum use of previous programming experience including a universal program that takes up less than

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