

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 $X, Y, Z, \dots, Z_\omega$, and every label in $\mathcal{P}$ is among $A, \dots, A_\omega, B$.
 - (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., $\omega \leq n$, $n \geq 0$) giving rise to corresponding sources. Now we consider this process in general.

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Cristopher Moore, Stephan Mertens



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Language, Logic, and Computation Alexandra Silva, Sam Staton, Peter Sutton, Carla Umbach, 2019-07-03 This book constitutes the refereed proceedings of the 12th International Tbilisi Symposium on Logic Language and Computation Tbilisi 2017 held in Lagodekhi, Georgia, in September 2017. The volume contains 17 full revised papers presented at the conference from 22 submissions. The aim of this conference series is to bring together researchers from a wide variety of fields in Natural language syntax, Linguistic typology, Language evolution, Logics for artificial intelligence, and much more. Subject Guide to Books in Print, 1993 *Books in Print*, 1994 *Computation in Language Text Analysis* Michael Stephen Mepham, 1973 *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 1998-99 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

The Nature of Computation Cristopher 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

Scientific and Technical Aerospace Reports ,1995 **Programming Languages** Fernando Castor,Yu David Liu,2016-09-17 This book constitutes the proceedings of the 20th Brazilian Symposium on Programming Languages SBLP 2016 held in Maring Brazil in September 2016 The 12 papers presented in this volume were carefully reviewed and selected from 26 submissions They deal with fundamental principles and innovations in the design and implementation of programming languages and systems

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