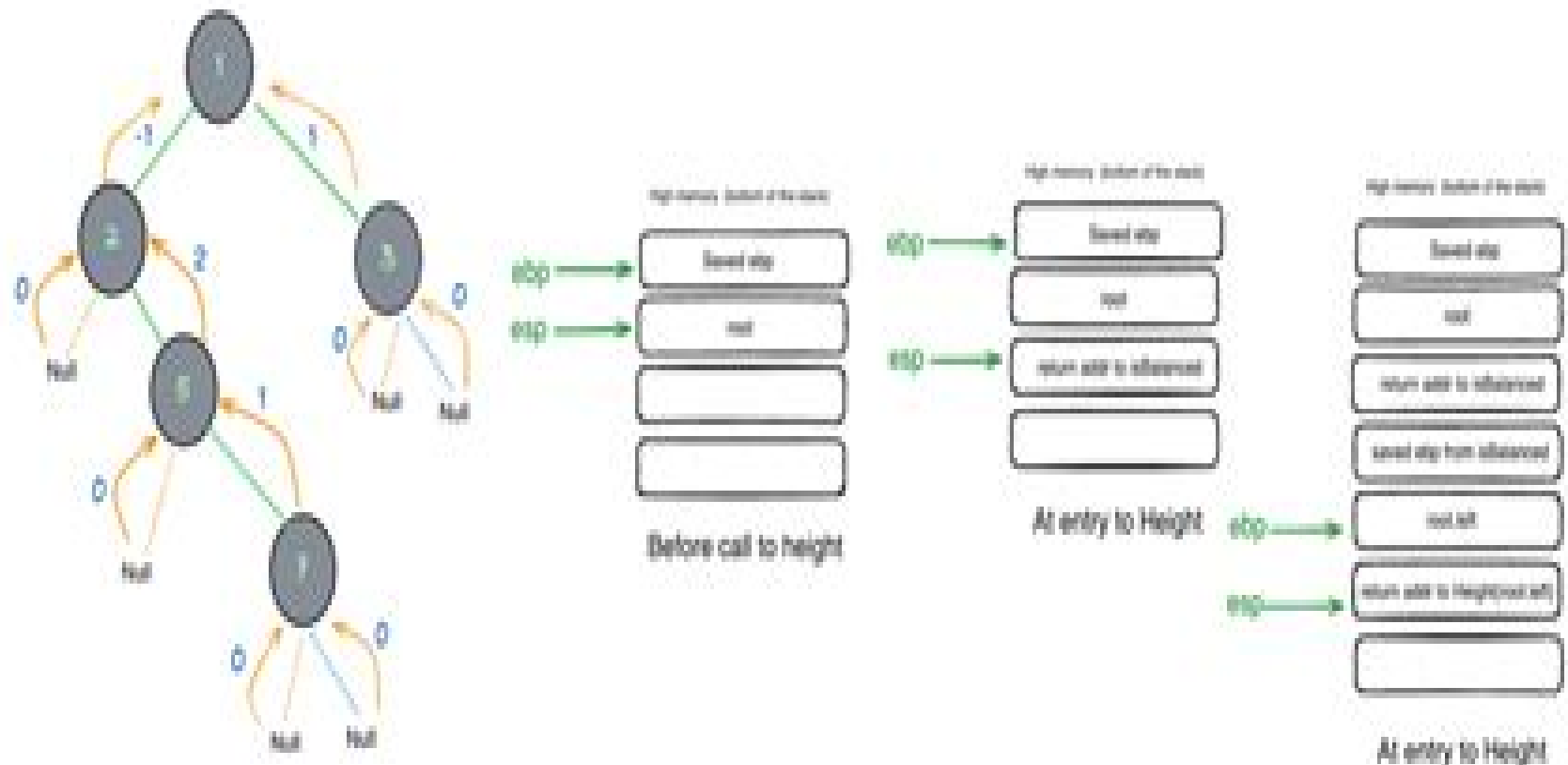


Recursion Theory and Recursive Functions



Recursive Function Theory

Nigel Cutland



Recursive Function Theory:

Computability Nigel Cutland, 1980-06-19 What can computers do in principle What are their inherent theoretical limitations These are questions to which computer scientists must address themselves The theoretical framework which enables such questions to be answered has been developed over the last fifty years from the idea of a computable function intuitively a function whose values can be calculated in an effective or automatic way This book is an introduction to computability theory or recursion theory as it is traditionally known to mathematicians Dr Cutland begins with a mathematical characterisation of computable functions using a simple idealised computer a register machine after some comparison with other characterisations he develops the mathematical theory including a full discussion of non computability and undecidability and the theory of recursive and recursively enumerable sets The later chapters provide an introduction to more advanced topics such as G del s incompleteness theorem degrees of unsolvability the Recursion theorems and the theory of complexity of computation Computability is thus a branch of mathematics which is of relevance also to computer scientists and philosophers Mathematics students with no prior knowledge of the subject and computer science students who wish to supplement their practical expertise with some theoretical background will find this book of use and interest

Computability Nigel Cutland, 2000 **An Early History of Recursive Functions and Computability** Rod Adams, 2011
Traces the development of recursive functions from their origins in the late nineteenth century to the mid 1930s with particular emphasis on the work and influence of Kurt G del *Computability* Nigel J. Cutland, 1980 **Recursive function theory** Symposium on Recursive Function Theory, New York, 1961, 1962 Theory of Recursive Functions and Effective Computability Hartley Rogers, 1967 **Enumerability · Decidability Computability** Hans Hermes, 2012-12-06

Once we have accepted a precise replacement of the concept of algorithm it becomes possible to attempt the problem whether there exist well defined collections of problems which cannot be handled by algorithms and if that is the case to give concrete cases of this kind Many such investigations were carried out during the last few decades The undecidability of arithmetic and other mathematical theories was shown further the unsolvability of the word problem of group theory Many mathematicians consider these results and the theory on which they are based to be the most characteristic achievements of mathematics in the first half of the twentieth century If we grant the legitimacy of the suggested precise replacements of the concept of algorithm and related concepts then we can say that the mathematicians have shown by strictly mathematical methods that there exist mathematical problems which cannot be dealt with by the methods of calculating mathematics In view of the important role which mathematics plays today in our conception of the world this fact is of great philosophical interest Post speaks of a natural law about the limitations of the mathematicizing power of Homo Sapiens Here we also find a starting point for the discussion of the question what the actual creative activity of the mathematician consists in In this book we shall give an introduction to the theory of algorithms *Recursive Function Theory* Robin O. Gandy, 1967

Computability Theory Herbert B. Enderton, 2010-12-30 Computability Theory An Introduction to Recursion Theory provides a concise comprehensive and authoritative introduction to contemporary computability theory techniques and results The basic concepts and techniques of computability theory are placed in their historical philosophical and logical context This presentation is characterized by an unusual breadth of coverage and the inclusion of advanced topics not to be found elsewhere in the literature at this level The text includes both the standard material for a first course in computability and more advanced looks at degree structures forcing priority methods and determinacy The final chapter explores a variety of computability applications to mathematics and science Computability Theory is an invaluable text reference and guide to the direction of current research in the field Nowhere else will you find the techniques and results of this beautiful and basic subject brought alive in such an approachable way Frequent historical information presented throughout More extensive motivation for each of the topics than other texts currently available Connects with topics not included in other textbooks such as complexity theory

Enumerability, Decidability, Computability Hans Hermes, 2013-03-14 The task of developing algorithms to solve problems has always been considered by mathematicians to be an especially interesting and important one Normally an algorithm is applicable only to a narrowly limited group of problems Such is for instance the Euclidean algorithm which determines the greatest common divisor of two numbers or the well known procedure which is used to obtain the square root of a natural number in decimal notation The more important these special algorithms are all the more desirable it seems to have algorithms of a greater range of applicability at one's disposal Throughout the centuries attempts to provide algorithms applicable as widely as possible were rather unsuccessful It was only in the second half of the last century that the first appreciable advance took place Namely an important group of the inferences of the logic of predicates was given in the form of a calculus Here the Boolean algebra played an essential pioneer role One could now perhaps have conjectured that all mathematical problems are solvable by algorithms However well known yet unsolved problems like the word problem of group theory or Hilbert's tenth problem which considers the question of solvability of Diophantine equations were warnings to be careful Nevertheless the impulse had been given to search for the essence of algorithms Leibniz already had inquired into this problem but without success

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