



String Searching Algorithms in C#



String Searching Algorithms

R Barnett



String Searching Algorithms:

String Searching Algorithms Graham A. Stephen, 1994 A bibliographic overview of string searching and an anthology of descriptions of the principal algorithms available Topics covered include methods for finding exact and approximate string matches calculating edit distances between strings and finding common **Flexible Pattern Matching in Strings** Gonzalo Navarro, Mathieu Raffinot, 2002-05-27 Presents recently developed algorithms for searching for simple multiple and extended strings regular expressions exact and approximate matches **Computer Algorithms** Jun-ichi Aoe, 1994-06-13 Introduces the basic concepts and characteristics of string pattern matching strategies and provides numerous references for further reading The text describes and evaluates the BF KMP BM and KR algorithms discusses improvements for string pattern matching machines and details a technique for detecting and removing the redundant operation of the AC machine Also explored are typical problems in approximate string matching In addition the reader will find a description for applying string pattern matching algorithms to multidimensional matching problems an investigation of numerous hardware based solutions for pattern matching and an examination of hardware approaches for full text search *Pattern Matching Algorithms* Alberto Apostolico, Zvi Galil, 1997 Issues of matching and searching on elementary discrete structures arise pervasively in computer science and many of its applications and their relevance is expected to grow as information is amassed and shared at an accelerating pace Several algorithms were discovered as a result of these needs which in turn created the subfield of Pattern Matching This book provides an overview of the current state of Pattern Matching as seen by specialists who have devoted years of study to the field It covers most of the basic principles and presents material advanced enough to faithfully portray the current frontier of research Because of these recent advances this is the right time for a book that brings together information relevant to both graduate students and specialists in need of an in depth reference

Algorithms on Strings Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 49 Chapters String searching algorithm Phonetic algorithm Metaphone Rabin Karp string search algorithm Longest common subsequence problem Knuth Morris Pratt algorithm Suffix tree Smith Waterman algorithm Parsing Levenshtein distance Boyer Moore string search algorithm Damerau Levenshtein distance Trim Longest increasing subsequence Approximate string matching Needleman Wunsch algorithm Bitap algorithm Soundex Jaro Winkler distance Suffix array Longest common substring problem Boyer Moore Horspool algorithm Hirschberg s algorithm Aho Corasick string matching algorithm Match Rating Approach Daitch Mokotoff Soundex Generalised suffix tree String metric Caverphone New York State Identification and Intelligence System String to string correction problem Shortest common supersequence Ukkonen s algorithm Signature files Maximal pair Levenshtein automaton Substring index Apostolico Giancarlo algorithm Hunt McIlroy algorithm Edit distance Partial word FM index Longest repeated substring problem Zhu Takaoka string matching algorithm Generating strings Wagner Fischer edit distance **Search Algorithm**

Dinesh G. Harkut,2023-02-01 Algorithms particularly those embedded in search engines social media platforms recommendation systems and information databases play an increasingly important role in selecting what information is most relevant to us which is a crucial feature of our participation in public life These algorithms are not just helpful in our daily lives but are also one of the unavoidable necessities of modern living This book discusses advances and applications of various types of search algorithms such as quantum search harmony search cognitive search genetic search and many others It is a valuable resource and provides a solid technical base for frontline investigations of search algorithms for scientists and students interested in search and optimization methods

Analysis of Boyer-Moore-type String Searching Algorithms
R. Baeza-Yates,University of Waterloo. Dept. of Computer Science,Régnier, Mireille,1989 Abstract We present an analysis of Horspool's variant of the Boyer Moore string matching algorithm Although this algorithm is very simple the analysis is not The searching time is linear An exact expression of the linearity constant c is derived It is proven to be asymptotically formula where q is the cardinality of the alphabet We exhibit a stationary process and reduce the problem to one of word enumeration The same technique may be used to analyze other variants of the Boyer Moore algorithm

Algorithms and Theory of Computation Handbook, Volume 1 Mikhail J. Atallah,Marina Blanton,2009-11-20 Algorithms and Theory of Computation Handbook Second Edition General Concepts and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many

Algorithms and Applications Tapio Elomaa,Heikki Mannila,Pekka Orponen,2010-04-20 This Festschrift volume published to honor Esko Ukkonen on his 60th birthday includes papers that present research on computational pattern matching and string algorithms two areas that have benefited significantly from the work of Ukonen

Encyclopedia of Algorithms Ming-Yang Kao,2008-08-06 One of Springer's renowned Major Reference Works this awesome achievement provides a comprehensive set of solutions to important algorithmic problems for students and researchers interested in quickly locating useful information This first edition of the reference focuses on high impact solutions from the most recent decade while later editions will widen the scope of the work All entries have been written by experts while links to Internet sites that outline their research work are provided The entries have all been peer reviewed This defining reference is published both in print and on line

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