```
                Document - 1                          Document - 2

                     │                                     │
                     ▼                                     ▼

            Decompose into string              Decompose into string
                   tokens                             tokens..

                          String matching algorithm

                                       │
                                       ▼

                              Matching Results
```

String Searching Algorithms

M. A. Sridhar

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 **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 **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 **The String Matching Algorithms** 陈宗岱,2025-12-11 String Matching 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 I t 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 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 *Pattern Matching Algorithms* Alberto Apostolico,Zvi Galil,1997-05-29 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

Computer Algorithms Jun-ichi Aoe,1994 Introduces the basic concepts and characteristics of string pattern matching strategies and provides numerous references for further reading **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 Algorithms and Data Structures ,1997 **Data Structures & Their Algorithms** Harry R. Lewis,Larry Denenberg,1991 Using only practically useful techniques this book teaches methods for organizing reorganizing exploring and retrieving data in digital computers and the mathematical analysis of those techniques The authors present analyses that are relatively brief and non technical but illuminate the important performance characteristics of the algorithms Data Structures and Their Algorithms covers algorithms not the expression of algorithms in the syntax of particular programming languages The authors have adopted a pseudocode notation that is readily understandable to programmers but has a simple syntax *Kybernetika* ,2002 **The Third South American Workshop on String Processing** Nivio Ziviani,Ricardo Baeza-Yates,Katia Guimarães,1996 **Algorithms in C++** Robert Sedgewick,1992 Software Programming Languages *Efficient Algorithms for Multiple Pattern Matching* M. A. Sridhar,1986 **String Matching Algorithms** Simon Mo. Chong,1995 Algorithms, Software, Architecture Jan Leeuwen,Robert M. Aiken,Friedrich H. Vogt,1992 Paperback This volume presents contributed and invited papers presented in the following three program streams Software Development and Maintenance Algorithms and Efficient Computation and From Architectures to ChipsThe papers on Software Engineering focus on formal methods the usefulness of object oriented system design and the future of tools and environments The papers on Efficient Algorithms address a wide range of algorithm design issues from text retrieval to e g parallel and distributed computing and show considerable progress in the design of general techniques and algorithm libraries The papers on Computer Architectures address developments in concurrent processing formal design methods and languages and performance aspects *String Matching Algorithms and Automata* Imre Simon,1994 Abstract In this paper we study the structure of finite automata recognizing sets of the form A superscript p for some word p and use the results obtained to improve the Knuth Morris Pratt string searching algorithm We also determine the average number of nontrivial edges of the above automata Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms ,1990 Symposium held Jan 22 24 1990 San Francisco Calif **Proceedings** ,1993 ISTCS DEGREES93 was sponsored by the Israel Academy of Sciences and Humanities and held in Natanya Israel June 1993 In addition to the 32

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