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9.1 Knuth-Morris-Pratt KMP String Matching Algorithm
How databases scale writes: The power of the log
Knuth – Morris – Pratt (KMP) Pattern Matching (Substring search)

Algorithms on Strings, All Quiz Answers with Assignments.
Edit Distance Between 2 Strings – The Levenshtein Distance ("Edit Distance" on LeetCode)

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10.2 B Trees and B+ Trees. How they are useful in Databases

CYK Algorithm Made Easy (Parsing) Ukkonen's algorithm for approximate string matching

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Substring Hyperloglog: Facebook's
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suffix trees in detail, Ukkonen ' s
method and Weiner ' s method.
Weiner was the ...

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book, suffix trees for the much
harder problem of finding all
repeated substrings of a given
string in linear time. In addition to
exact string matching, there are
extensive discussions of inexact
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6.2 Weiner's linear- time suffix
tree algorithm 6.3 McCreight's
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Generalized suffix tree for a set of
strings 6.5 Practical
implementation issues 6.6

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string matching 7.2 APL2: Suffix
trees and the exact set matching
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Publisher Description (unedited publisher data) String algorithms are a traditional area of study in computer science. In recent years their importance has grown dramatically with the huge increase of electronically stored text and of molecular sequence data (DNA or protein sequences) produced by various genome projects. This book is a general text on computer algorithms for string processing.

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Constructing Suffix Arrays and
Suffix Trees In this module we

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continue studying algorithmic challenges of the string algorithms. You will learn an $O(n \log n)$ algorithm for suffix array construction and a linear time algorithm for construction of suffix tree from a suffix array.

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Ukkonen's linear-time suffix tree algorithm. Esko Ukkonen [438] devised a linear-time algorithm for constructing a suffix tree that may be the conceptually easiest linear-time construction algorithm. This algorithm has a space-saving improvement over Weiner's algorithm (which was achieved first in the development of McCreight's algorithm), and it has a certain “on-line” property that

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