Text Processing, Pattern Searching, and Recursive Algorithms

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Keyword Searching

Keyword searching identifies specific words or phrases within text documents, useful in indexing and retrieval.

Text Line Adjustment

Text line adjustment involves formatting text to fit within display or printing constraints.

Linear Pattern Search

A search technique that sequentially examines text for pattern matches.

Sublinear Pattern Search

An optimized search approach that skips unnecessary comparisons, improving efficiency.

Recursion

Recursion is a problem-solving technique where a function calls itself to break down complex tasks.

Towers of Hanoi

A classic recursive problem involving the transfer of disks between pegs following specific rules.

Sample Generation

The process of creating test cases or data samples using recursive techniques.

Combination Generation

Generating all possible subsets or groups from a given set of elements using recursion.

Permutation Generation

Arranging a set of elements in different orders using recursive techniques.

Pseudocode and Flowchart

Pseudocode offers a structured algorithmic representation, while flowcharts depict process flows visually.