Top 6 Algorithms Every Programmer Should Know



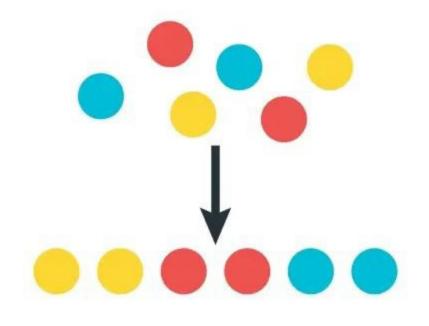
Sorting Algorithms



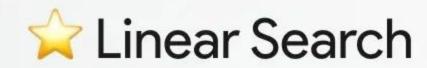


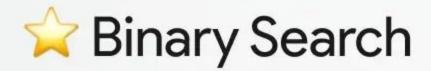
Quick Sort

Heap Sort



Searching Algorithm

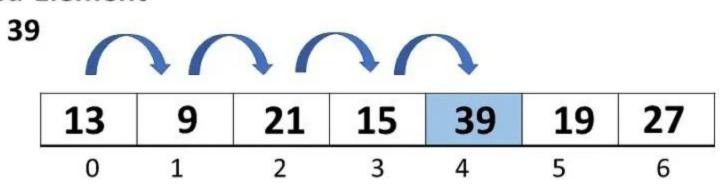






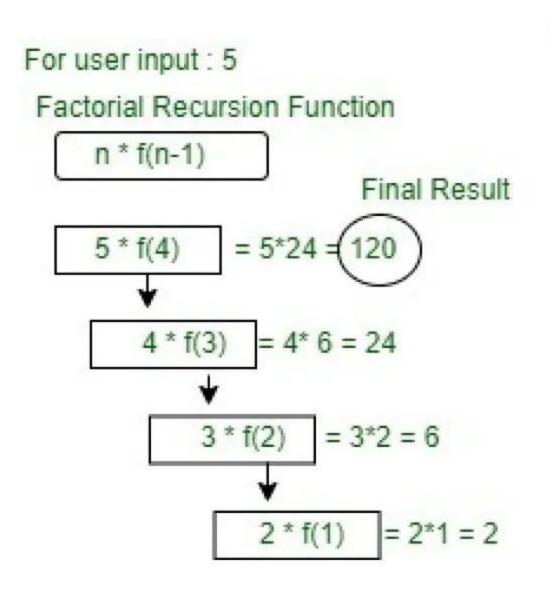
Carch Pirst Search)

Searched Element



Recursion Algorithm

Recursion is a problem-solving technique in which the solution is dependent on solutions to smaller instances of the same problem





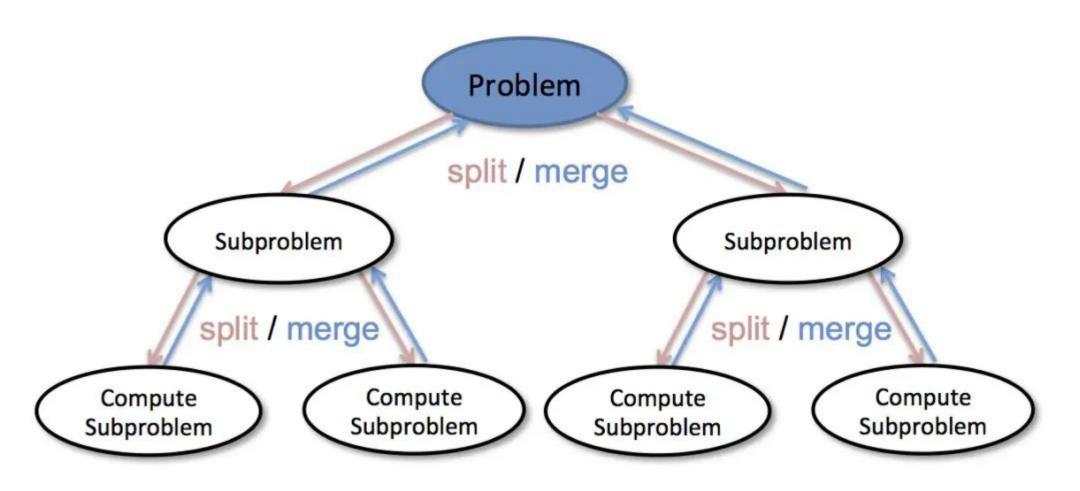
a function calls itself within its own code

Divide and Conquer

Divide - Original Problem is Divided into Sub Problems

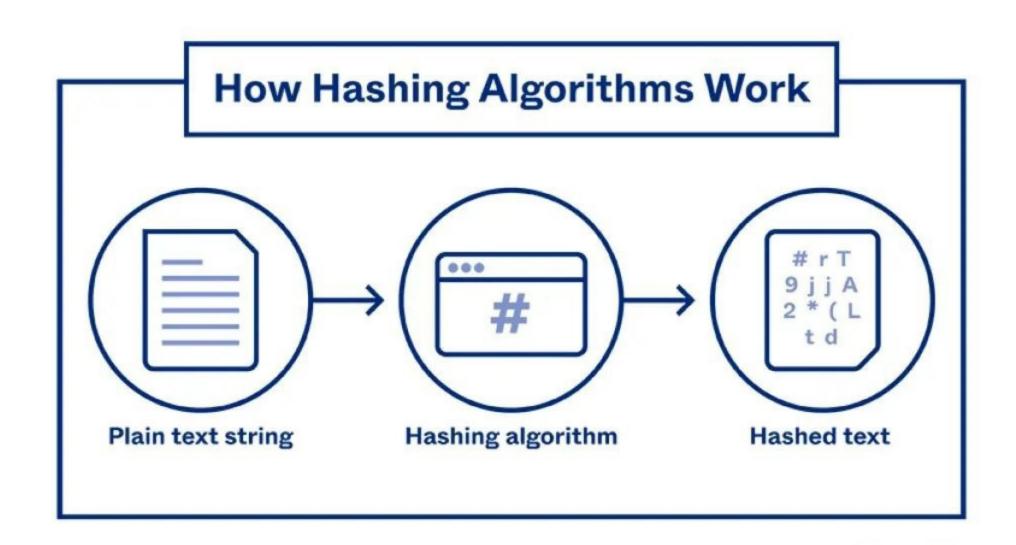
Conquer - Solve each sub-problem one at a time, recursively

Combine - Put the solutions to the sub-problems together to get the solution to the whole problem



Hashing Algorithms

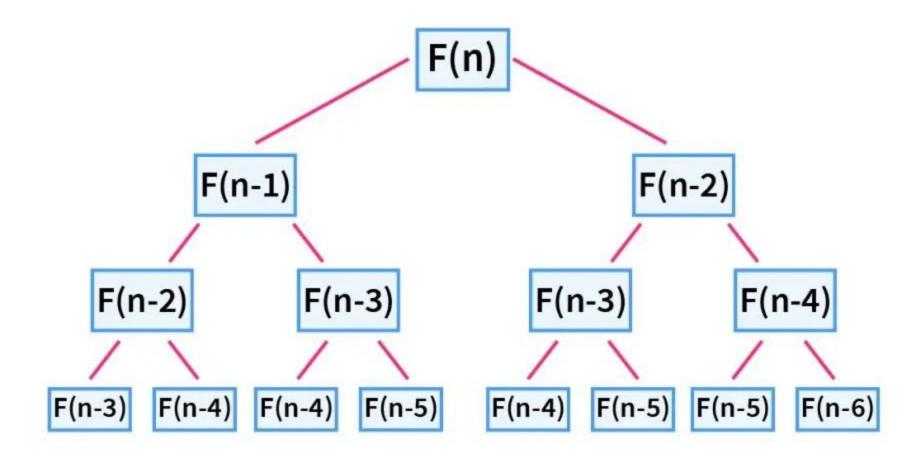
Hashing is a technique or process that uses a hash function to map keys and values into a hash table



Dynamic Programming

Dynamic programming is nothing but recursion with memoization

calculating and storing values that can be later accessed to solve subproblems that occur again



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