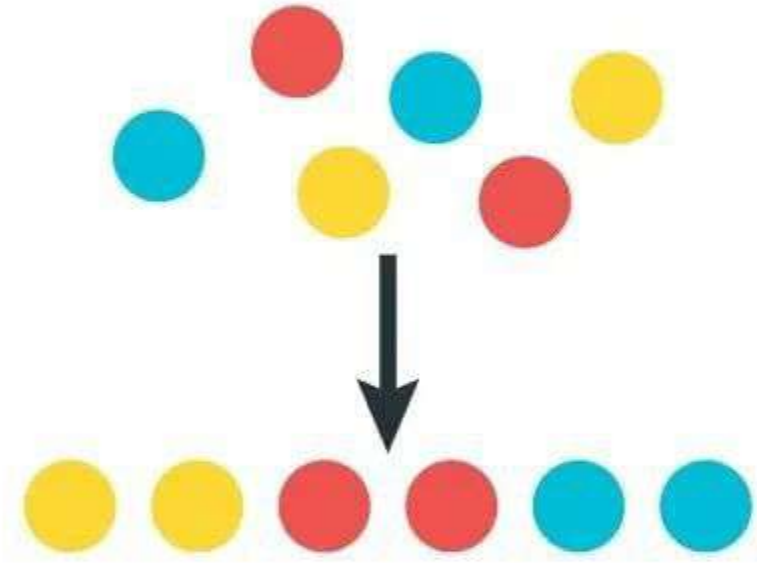
TOP 6 ALGORITHM EVERY PROGRAMMER SHOULD KNOW

Sorting Algorithms

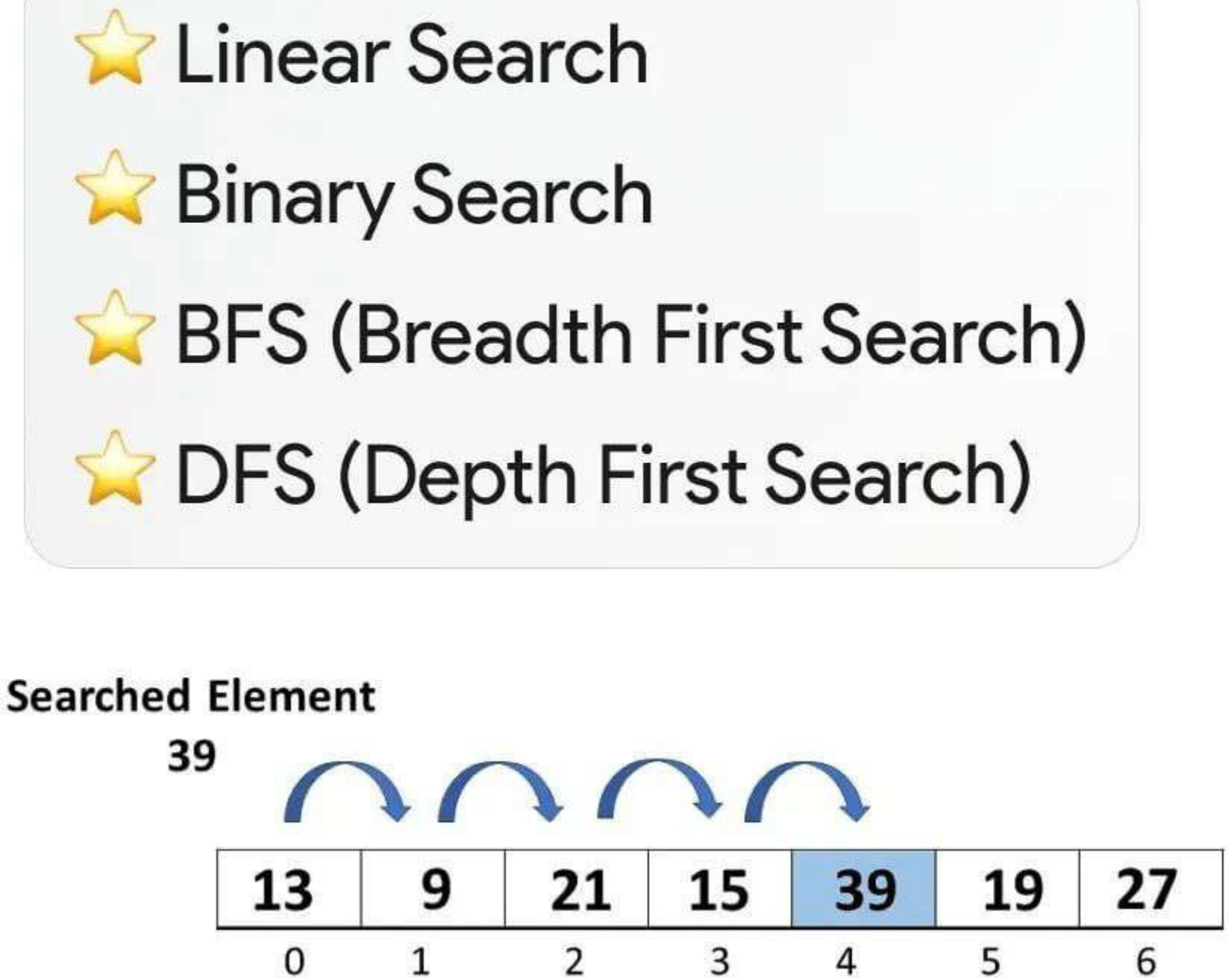
- ⭐ Bubble Sort
- ⭐ Merge Sort
- ⭐ Quick Sort
- ⭐ Heap Sort



Atul Kumar

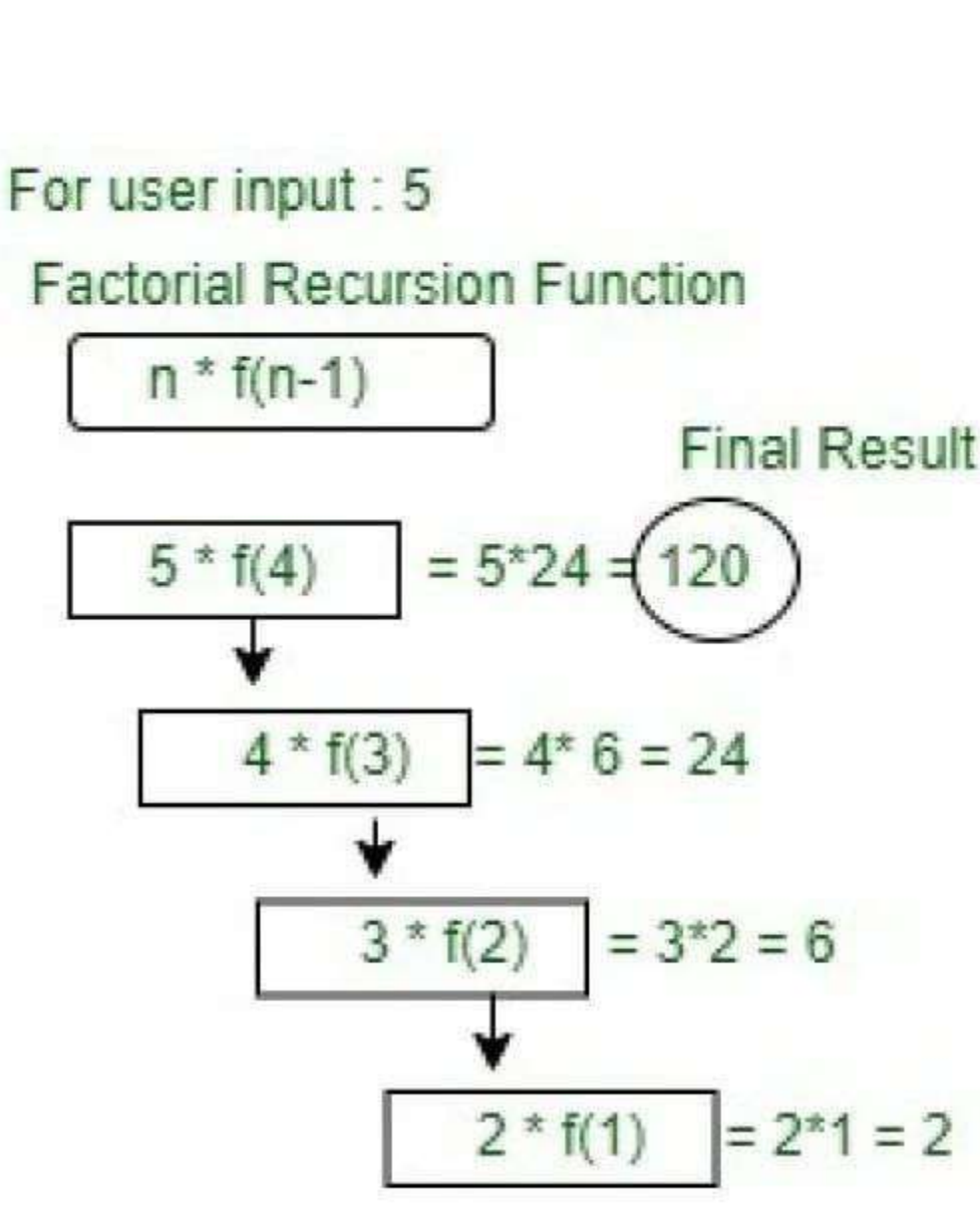
Searching Algorithm

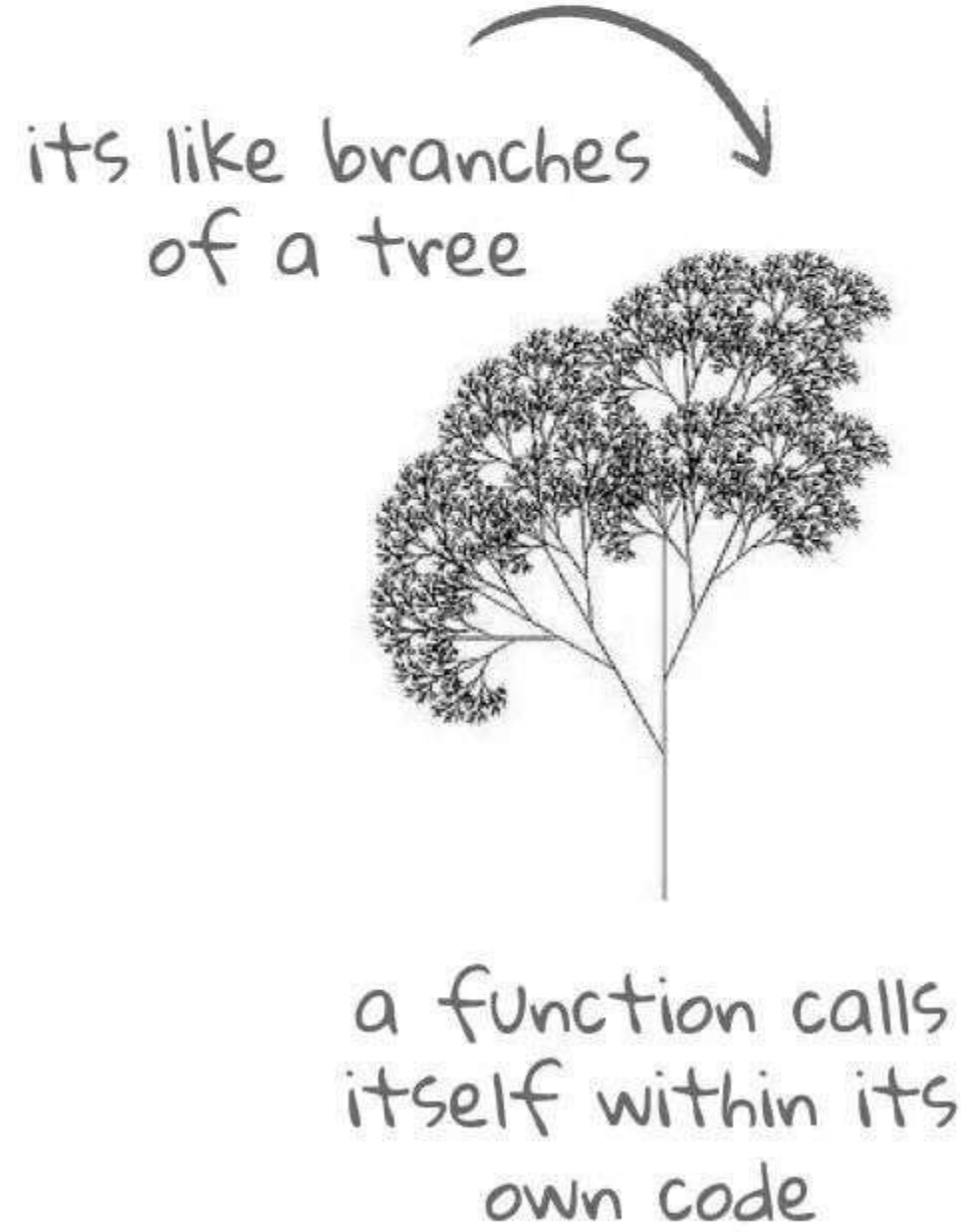
- ⭐ Linear Search
- ⭐ Binary Search
- ⭐ BFS (Breadth First Search)
- ⭐ DFS (Depth First Search)



Recursion Algorithm

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



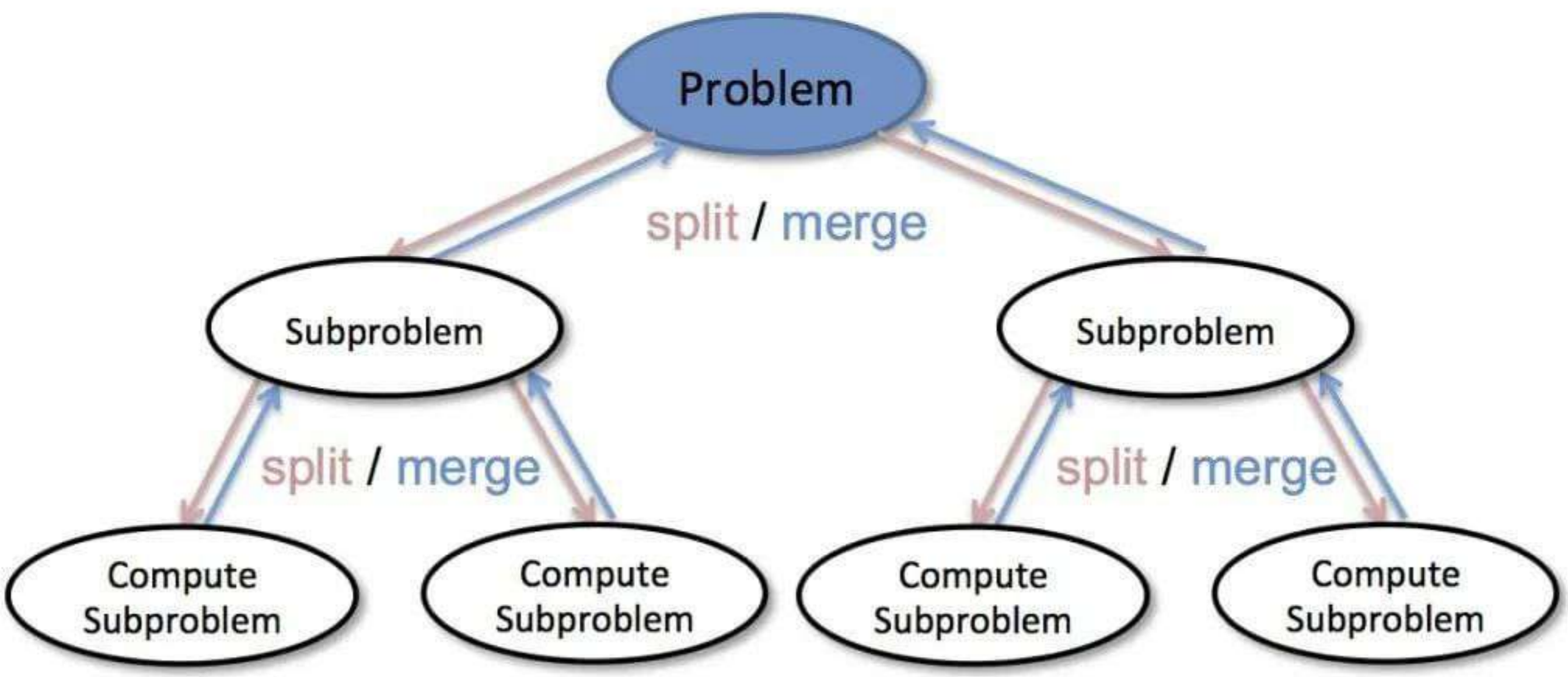


Divide and Conquer

Divide - Original Problem is Divided into Sub Problems

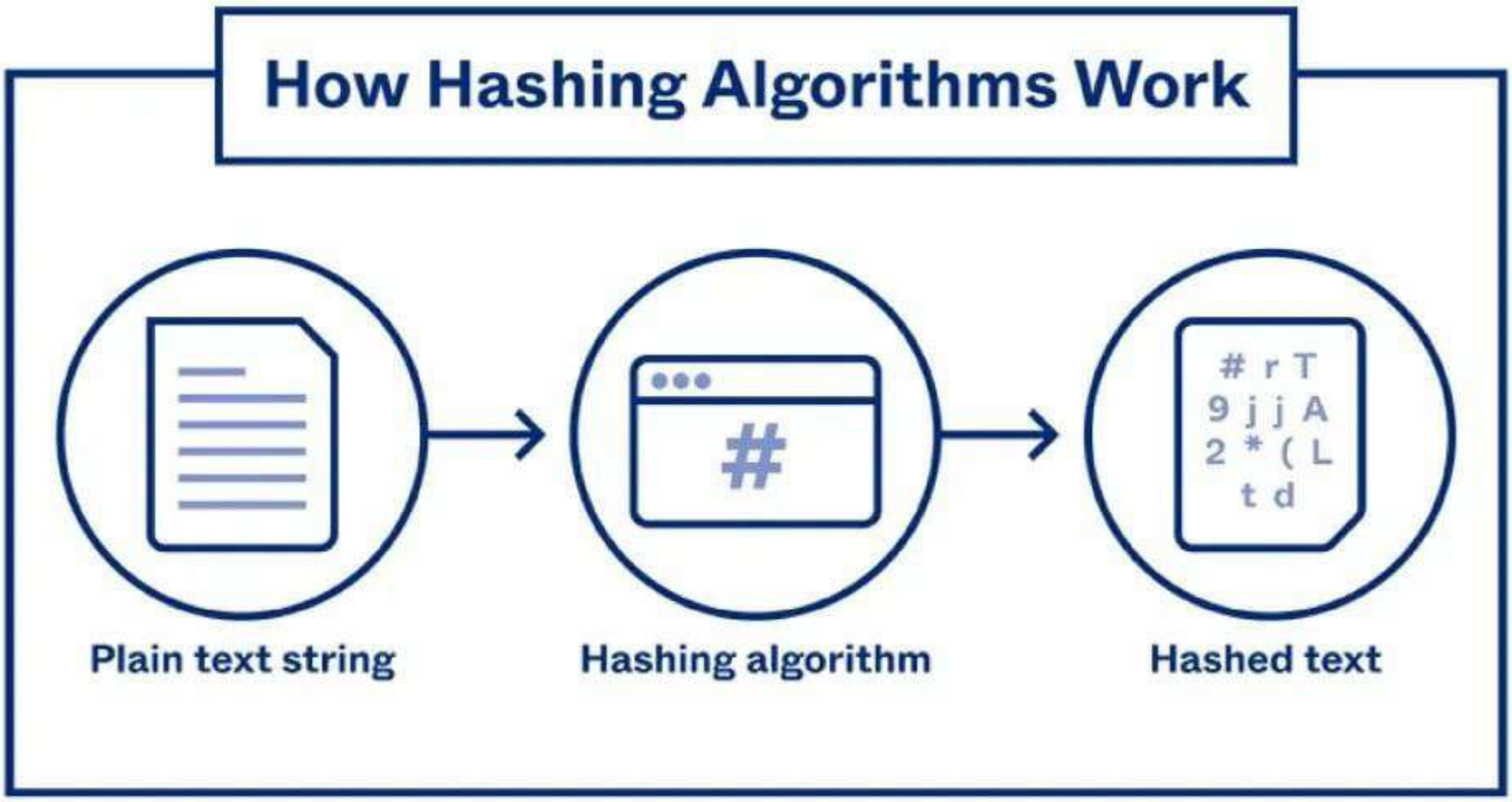
Conquer - Solve each sub-problem one at a time, recursively

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