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Top 6 Algorithm every programmer should know.

SORTING ALGORITHMS

Bubble Sort

Merge Sort

Quick Sort

Heap Sort

Unsorted Array

9	1	3	2	7	4
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sorting algorithm

Sorted Array

1	2	3	4	7	9
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SEARCHING ALGORITHMS

Linear Search

Binary Search

BFS

DFS





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RECURSION ALGORITHMS

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



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DIVIDE AND CONQUER

- **Devide** - Original problem is Divided into sub Problems.
- **Conquer** - Solve each sub-problem one at time,recursively.
- **Combine** - Put the solutions to the sub-problems together to get the solution to the whole problem.



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HASHING ALGORITHMS

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





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DYNAMIC PROGRAMMING

- **Dynamic programming is nothing but recursion with memoization.**
- **Calculation and storing values that can be later accessed to solve subproblems that occur again.**



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DATA STRUCTURE AND ALGO



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