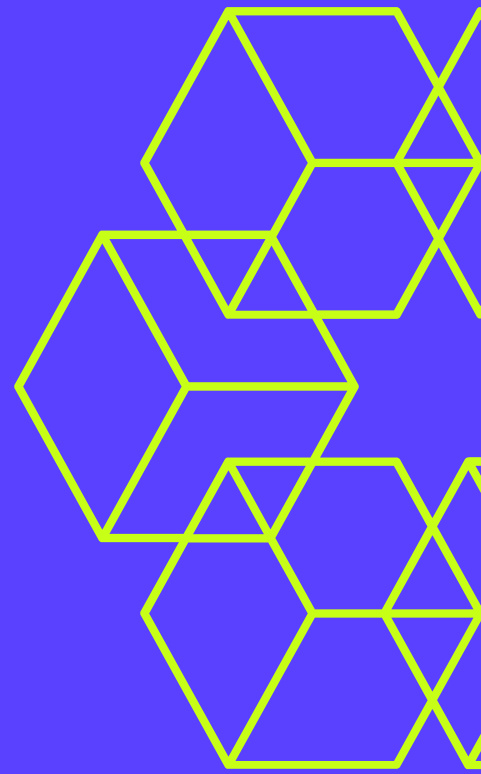




# Algorithms Course Contents



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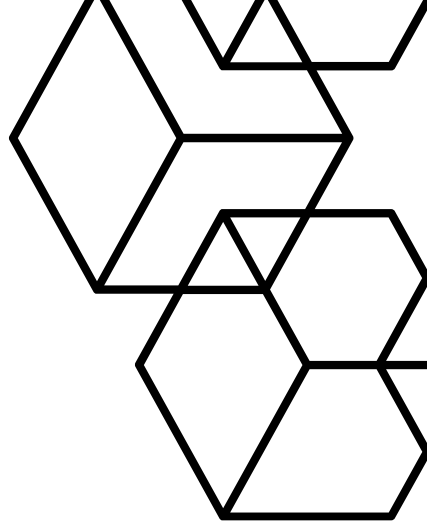
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## CHAPTER 1 : INTRODUCTION TO ALGORITHMS

- Basic concepts
- Asymptotic notations

## CHAPTER 2 : SORTING ALGORITHMS

- Bubble Sort
- Selection Sort
- Insertion Sort
- Merge Sort
- Quick Sort
- Heap Sort
- Bucket Sort



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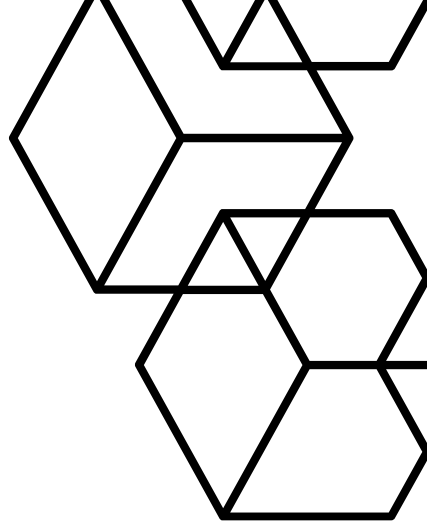
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## CHAPTER 3 : SEARCHING ALGORITHMS

- Linear Search
- Binary Search
- Interpolation Search

## CHAPTER 4 : GRAPH ALGORITHMS

- Breadth First Search
- Depth First Search
- Dijkstra Algorithm
- Bellman Ford Algorithm
- Floyd Warshall Algorithm



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## CHAPTER 5 : STRING ALGORITHMS

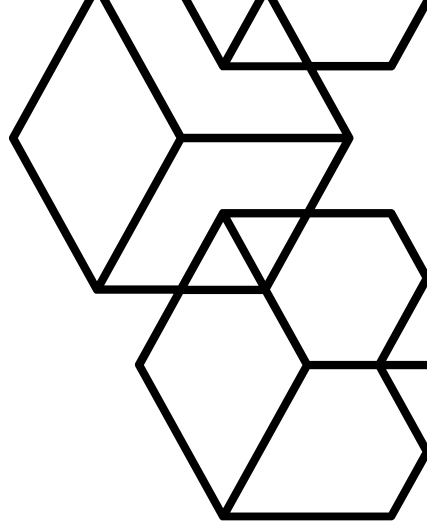
- Pattern Searching
- String Matching Algorithms

## CHAPTER 6 : DYNAMIC PROGRAMMING

- Memoization
- Tabulation

## CHAPTER 7 : BIG O NOTATION

- Definition
- Calculation
- Properties



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## CHAPTER 8 : RECURSION

- Recursive Functions
- Tail Recursion
- Indirect Recursion
- Tree Recursion

## CHAPTER 9 : MISCELLANEOUS ALGORITHMS

- Bit Manipulation
- Backtracking
- Greedy Algorithms

