

Complete Interview Preparation



Detailed Course Syllabus



1) Programming Languages

Programming Languages:

- **C++:** Introduction and Basic I/O, Variables, Different Errors, Operators, Loops, Arrays, String, Functions, Pointers, Dynamic Memory Allocation, Exception Handling and Smart Pointers
- **Java :** Introduction and Basic I/O, Variables , Operators, Loops, Exception Handling, Arrays, String , Immutable Strings, ArrayList , BigInteger

2) Object Oriented Programming

Object Oriented Programming:

- Classes and Objects
- Inheritance and Polymorphism: Overloading and Overriding
- Abstraction and Encapsulation
- Access Modifiers
- Friend and Virtual functions in C++
- static, final, this and super keywords and Interfaces in Java

3) Data Structures (Basics)

Analysis of Algorithms:

- Growth of functions
- o Asymptotic Notations Omega, Theta,
- o Recursion Tree Method
- Space Complexity

Arrays:

- o Insertion, Deletion, Updation, Shifting
- o Reversal, Sort Check, Maximum, Minimum

Recursion

- o Introduction to Recursion
- o Tail Recursion
- Natural Number Check Using Recursion



- o Palindrome Check Using Recursion
- o Sum of Digits, Rod Cutting and Subsets
- Tower of Hanoi

Hashing:

- o Introduction to Hashing
- Direct Address Table
- o Collision Handling
- Chaining
- Open Addressing
- o Double Hashing
- Chaining Vs Open Addressing

• String:

Introduction to Strings

• Searching:

- o Linear Search
- Binary Search (Iterative and Recursive)

Sorting:

- Stability in Sorting Algorithm
- o Bubble Sort
- Selection Sort
- Insertion Sort
- Quick Sort
- o Different Partition Schemes in QuickSort
- Merge Sort
- Lomuto Partition
- Hoare Partition
- o Heap SOort
- Counting Sort
- o Radix Sort
- Bucket Sort

Linked List:

- Drawback of Arrays
- Introduction to Linked List and Implementation
- o Traversal, Insertion and Deletion
- Sorted Insertion in Linked List
- Reversal of Linked List (Iterative and Recursive)
- Finding Middle
- o Remove Duplicate from Sorted Linked List

• Circular Linked List:

- Traversal
- Insertion (Head, End)
- o Deletion (Head, Kth Node)



Doubly Linked List:

- o Traversal
- o Insertion (Head, End)
- Deletion (Head, End)
- Reversal
- Circular Doubly Linked List

Stack:

- Introduction to Stack Data Structure
- Implement using array
- o Implementation using Linked List
- Stack Applications

• Queue:

- o Introduction to Queue Data Structure
- Implementation using array
- o Implementation using Linked List.

Dequeue:

- o Introduction to Deque Data Structure.
- Implementations using Array
- Implementation using Linked List

• Tree:

- Implementation
- o Traversals: preorder, postorder, inorder, level order(Iterative & Recursive)
- o Binary Tree: Height, Size, Maximum
- Print Nodes at K Distance

• BST:

- Implementation
- Search
- Insertion
- Deletion
- o Floor and Ceil in BST in CPP and Java
- Self Balancing BST
- AVL Tree (Introduction and applications)
- Red-Black Tree (Introduction and applications)
- Applications of BST

Heap:

- Implementation
- o Insert
- Heapify and Extract in Heap
- Decrease Key, Delete and Build Heap



4) Libraries

C++ STL

Introduction to STL

- i) Introduction and Application
- ii) Iterators
- iii) Templates
- iv) Function Templates
- v) Class Templates

o Pairs in CPP STL

- i) Introduction
- ii) Problem(With Video Solutions): Sorting an array according to another array
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Vectors in CPP STL

- i) Introduction
- ii) Vector Declaration
- iii) More functions of Vectors
- iv) Time Complexities of different operations and passing Vectors to function
- v) Internal Working of Vectors
- vi) Problems(With Video Solutions):
 - (1) Vector and Vector of Pairs
 - (2) Keeping track of previous indexes after sorting a Vector

Forward_list and list

- i) Forward List in C++ STL
- ii) List in C++ STL
- iii) Problems(With Video Solutions):
 - (1) Josephus Problem using List in STL
 - (2) Design a Data Structure with Insert/Replace/Print operations
- iv) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

o Deque

i) Introduction



- ii) Problems(With Video Solutions):
 - (1) Sliding Window Maximum
 - (2) Design a Data Structure with Min/Max operations in O(1) time
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Stack

- i) Introduction and Various Operations
 - (1) push()
 - (2) pop()
 - (3) top()
 - (4) size()
 - (5) empty()
- ii) Problems(With Video Solutions):
 - (1) Reverse items using Stack
 - (2) Balanced Parenthesis
 - (3) Stock Span Problem
 - (4) Previous Greater Elements
 - (5) Next Greater Elements
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Queue

- i) Introduction and Various Operations
 - (1) push()
 - (2) pop()
 - (3) front()
 - (4) back()
 - (5) empty()
 - (6) size()
- ii) Problems(With Video Solutions):
 - (1) Reverse first K items in a Queue
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Priority Queue

- i) Introduction and Various Operations
 - (1) push()



- (2) pop()
- (3) top()
- (4) empty()
- (5) size()
- (6) Creating Min Heap based Priority Queue
- ii) Problems(With Video Solutions):
 - (1) Sort an array using Priority Queue
 - (2) K Largest Elements in an array
 - (3) Buy maximum items with given money
 - (4) Find K most frequent elements
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Set & MultiSet

- i) Set in C++ STL
 - (1) Introduction and Implementation
 - (2) insert()
 - (3) begin()
 - (4) end()
 - (5) rbegin()
 - (6) rend()
 - (7) erase()
 - (8) clear()
 - (9) find()
 - (10) Internal Working
 - (11) Time Complexities
- ii) Problems on Set(With Video Solutions):
 - (1) Design a Data Structure that supports the below operations:
 - (2) insert()
 - (3) delete()
 - (4) search()
 - (5) getFloor()
 - (6) getCeiling()
- iii) Multiset in C++ STL with few operations
- iv) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Map and MultiMap

i) Introduction to Map



- (1) insert()
- (2) operator()
- (3) size()
- (4) empty()
- (5) clear()
- (6) begin()
- (7) end()
- (8) Internal Working
- (9) Time Complexities
- ii) Problem:
 - Design a data structure for item prices. The operations are add(), find(), findGreater(), findSmaller() and printSorted()
 - (2) Count greater elements for every array element.
- iii) Multimap in C++ STL with few functional operations
- iv) Problem(With Video Solutions):
 - (1) Design a data structure for prices with duplicates allowed. The operations are add(), find(), findGreater(), findSmaller() and printSorted
- v) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Unordered_set

- i) Introduction to Set
 - (1) insert()
 - (2) begin()
 - (3) size()
 - (4) end()
 - (5) clear()
 - (6) find()
 - (7) Internal Working
 - (8) Time Complexities
- ii) Problems(With Video Solutions):
 - (1) Print Unique Elements of Array
 - (2) Print duplicate elements of the array
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Unordered_Map

- i) Introduction
- ii) Problems(With Video Solutions):



- (1) Design a DS for storing user balance
- (2) Find Winner of Election
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Non Mutating STL Algorithms

- i) Explanation along with Time Complexities of
 - (1) max_element()
 - (2) min_element()
 - (3) accumulate()
 - (4) count()
 - (5) find()
 - (6) binary_search()
 - (7) lower_bound()
 - (8) upper_bound()
 - (9) rotate()
 - (10) fill()
 - (11) is_permutation()
 - (12) rand()
- ii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

Mutating STL Algorithm

- i) Explanation along with Time Complexities of
 - (1) sort()
 - (2) reverse()
 - (3) next_permutation()
 - (4) prev_permutation()
 - (5) make_heap()
 - (6) merge()
- ii) Problems(With Video Solutions):
 - (1) The Thief problem
 - (2) Fractional knapsack problem
 - (3) Chocolate Distribution problem
 - (4) Sort array elements by frequency
- iii) Practice Problems
 - (1) This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.



Java Collections

Collection Overview

- i) Introduction to Java Collections Framework
- ii) Collections hierarchy
- iii) Generics
- iv) Wildcards
- v) toArray() Methods
- vi) Collections Interface
- vii) Iterators
- viii) Collections Bulk operations
- ix) Iterating through Collections

Java Lambda Expressions

- i) Introduction to Lambda Expressions and ways to use them
- ii) Introduction to Method References and examples
- iii) Syntax of Lambda Expressions
- iv) Practice Problems
 - (1) Practice problems on Lambda Expressions

Java Streams

- i) Introduction to Streams in Java
- ii) Various Applications of Streams
- iii) The Stream hierarchy and methods
- iv) Examples on Streams
- v) Practice Problems
 - (1) Practice problems on Streams

ArrayList

- i) Introduction to List Interface
- ii) Using List Iterator
- iii) Introduction to ArrayLists
- iv) Implementation
- v) ArrayList Methods
- vi) Traversal
- vii) Problems with video explanation
 - (1) List of smaller elements
- viii) Practice Problems
 - (1) Practice problems on implementation, iterator, methods, and using ArrayList to solve dsa problems

Linked List

- i) Introduction and implementation of LinkedList in Java
- ii) Problems with video explanation



- (1) Josephus Problem using LinkedList
- (2) Design a DS for remove and print
- iii) Practice Problems
 - (1) Practice problems on implementation, traversal, and use of LinkedList.

Stack

- i) Introduction to Stack
- ii) Implementation
- iii) Methods
- iv) Traversal
- v) Problems with video explanation
 - (1) Reverse order of items
 - (2) Check for balanced parentheses
 - (3) Stock span
 - (4) Previous greater element
 - (5) Next greater element
- vi) Practice Problems
 - (1) Practice problems on implementation, methods, and using Stacks to solve dsa problems

Queue

- i) Introduction to Queue Interface
- ii) Implementation and usage
- iii) Methods
- iv) Traversal
- v) Problems with video explanation
 - (1) Reverse first k items
- vi) Practice Problems
 - (1) Practice problems on implementation, methods, and using Queue to solve dsa problems

Deque

- i) Introduction to Deque
- ii) Implementation and usage
- iii) ArrayDeque
- iv) Methods
- v) Traversal
- vi) Practice Problems
 - (1) Practice problems on implementation, methods, and using ArrayDeque to solve dsa problems

PriorityQueue

- i) Introduction to PriorityQueue
- ii) Implementation and usage
- iii) Methods



- iv) Traversal
- v) Problems with video explanation
 - (1) Purchasing maximum items
 - (2) K largest elements
 - (3) Find k most frequent
 - (4) Find k most frequent in Linear time
- vi) Practice Problems
 - (1) Practice problems on implementation, methods, and using PriorityQueue to solve dsa problems

HashSet and LinkedHashSet

- i) Introduction to HashSet
- ii) Introduction to LinkedHashSet
- iii) Implementation and usage
- iv) Methods
- v) Traversal
- vi) Problems with video explanation
 - (1) Print distinct elements
 - (2) Print repeating elements
- vii) Practice Problems
 - (1) Practice problems on implementation, methods, and using HashSet to solve dsa problems

TreeSet

- i) Introduction to TreeSet
- ii) Implementation and usage
- iii) Methods
- iv) Traversal
- v) Problems with video explanation
 - (1) Ceiling on right
 - (2) Count greater element
- vi) Practice Problems
 - (1) Practice problems on implementation, methods, and using TreeSet to solve dsa problems

HashMap and LinkedHashMap

- i) Introduction to HashMap
- ii) Introduction to LinkedHashMap
- iii) Implementation and usage
- iv) Methods
- v) Traversal
- vi) Problems with video explanation
 - (1) DS for balance
 - (2) Print frequencies in order
- vii) Practice Problems



(1) Practice problems on implementation, methods, and using HashMap to solve dsa problems

TreeMap

- i) Introduction to TreeMap
- ii) Implementation and usage
- iii) Methods
- iv) Traversal
- v) Problems with video explanation
 - (1) Design a data structure for item prices
 - (2) Design a data structure for item prices with duplicates allowed
- vi) Practice Problems
 - (1) Practice problems on implementation, methods, and using TreeMap to solve dsa problems

String

- i) Introduction to Strings
- ii) Introduction to StringBuilder and StringBuffer
- iii) Implementation and usage
- iv) Methods
- v) Traversal
- vi) Problems with video explanation
 - (1) Pangram checking
 - (2) Pattern searching
 - (3) Find one extra character
- vii) Practice Problems
 - (1) Practice problems on implementation, methods, and using Strings to solve dsa problems

Comparator and Comparable

- i) Introduction to Comparable Interface
- ii) Introduction to Comparator Interface
- iii) Methods of Comparator Interface and Examples on it
- iv) Practice Problems
 - (1) Practice problems on using Comparator to sort effectively

Arrays Class

- i) Introduction to Arrays and the Arrays Class
- ii) Implementation and usage
- iii) Methods like
 - (1) fill()
 - (2) BinarySearch()
 - (3) equals()
 - (4) mismatch()
 - (5) compare()



- (6) asList()
- (7) toString()
- iv) Traversal
- v) Practice Problems
 - (1) Practice problems on implementation and methods

Collections Class

- i) Introduction to Collections Class
- ii) Methods like fill(), reverse(), binarySearch(), max(), min(), frequency()
- iii) Practice Problems
 - (1) Practice problems on methods

Sorting

- i) Introduction to sorting in Java
- ii) Arrays.sort()
- iii) Collections.sort()
- iv) Comparable Interface
- v) Problems with video explanation
 - (1) The thief problem
 - (2) Chocolate distribution problem
 - (3) Keep indices after sorting
 - (4) Sort an array according to other
 - (5) Sort students by marks
 - (6) Sort elements by frequency
 - (7) Sort elements by frequency in Linear Time
- vi) Practice Problems
 - (1) Practice problems on various sorting algorithms, and comparator sort

5) Data Structures (Advanced)

Mathematics

- Count Digits
- o Palindrome Numbers
- Factorial of Numbers
- o GCD of Two Numbers
- LCM of Two Numbers
- Check for Prime
- o Prime Factors
- Sieve of Eratosthenes
- Computing Power

Recursion



- Josephus Problem
- o Subset Sum Problem

Arrays:

- Kadane's Algorithm
- Shuffling Algorithms
- Sliding Window
- o Prefix Sum Technique
- Video Solutions for some standard and complex problems
- More Problems for Practice.

Matrix:

- o Multidimensional Array in CPP and Java
- Search, Transpose and Rotate
- o Pattern Traversal: Snake, Spiral, Boundary
- o Video Solutions for some standard and complex problems
- More Problems for Practice.

• Searching:

- Two Pointer Approach
- o Video Solutions for some standard and complex problems
- More Problems for Practice.

• Sorting:

- Union And Intersection of Sorted Arrays
- Inversions Count
- o Tail Call elimination Quick Sort
- Cycle Sort
- Merge of Overlapping Intervals
- Overview of Sorting Algorithms
- Video Solutions for some standard and complex problems
- More Problems for Practice.

Hashing:

- Double Hashing
- Find frequencies of array
- Count Distinct element in Every Window
- o Intersection and Union via Hashing
- Frequencies of Array Elements
- Distinct Elements in Window
- Counting Occurences
- Check for a Pair with given Sum
- Longest Consecutive Subsequence
- Subsequence Problems
- Subarray Problems
- Video Solutions for some standard and complex problems
- More Problems for Practice.



• Strings:

- o Creation, Updation
- o Reverse, Pangram, Case conversion
- o Validation, Length
- o Palindrome Check
- Overview of Pattern Searching
- Pattern Matching Algorithms:
 - Rabin Karp Algorithm
 - KMP Algorithm
- Rotations Check of two Strings
- Anagram
- o Video Solutions for some standard and complex problems
- o More Problems for Practice.

Linked List:

- Doubly Linked List
- o Circular Linked List
- Loop in Linked List (Detection and Removal)
- Loop Detection Algorithms
- Union and Intersection of LinkedLists
- Reverse in Groups
- o LRU Cache Design
- o Palindrome LinkedList
- o Video Solutions for some standard and complex problems
- o More Problems for Practice.

Stack:

- Infix, Postfix, Prefix (Introduction)
- Infix to PostFix (Simple Solution)
- Infix to PostFix (Efficient Solution)
- Evaluation of Postfix
- o Infix to Prefix (Simple Solution)
- Infix to Postfix (Efficient Solution)
- Evaluation of Prefix
- Implementing Two Stacks in Single Array
- Implementing K stacks in Single Array
- o Largest Rectangular Area in Histogram
- Design a Stack that supports getMin() operation
- Video Solutions for some standard and complex problems
- o More Problems for Practice.

• Queue and Deque:

- Stack using Queue
- Reversal
- Maximum of all Subarrays of Size K



- o Generate numbers using given digits
- Design a data structure with min/max operations
- Video Solutions for some standard and complex problems
- More Problems for Practice.

Tree:

- Line By Line Level Order Traversal
- o Printing Left, Right, Top and Bottom Views
- Binary Tree to Doubly Linked List
- Binary Tree from Inorder and Postorder Traversal
- Maximum Width
- Child Sum Property
- o Convert Binary Tree to Doubly LinkedList
- Burning a Tree from Leaf
- Diameter
- LCA
- Serialize and Deserialize
- o Count Nodes in Complete Binary Tree
- Video Solutions for some standard and complex problems
- More Problems for Practice.

• Binary Search Tree:

- Top View
- Bottom View
- Vertical Sum
- Vertical Traversal
- Fix BST With Two Nodes Swapped
- Check For BST
- Video Solutions for some standard and complex problems
- o More Problems for Practice.

Heap:

- Heap Sort
- Video Solutions for some standard and complex problems
- o More Problems for Practice.

• Graph:

- o Graph Representation: Adjacency List
- Adjacency List Implementation in CPP
- o Adjacency List Implementation in Java
- Adjacency List and Matrix Comparison
- Breadth First Search and application
- Depth First Search and application
- Detect Cycle in Undirected Graph
- Detect Cycle in Directed Graph
- Topological Sorting



- Shortest Path Problems
- o Prim's Algorithm Introduction and Implementation in CPP and Java
- o Dijkstra's Algorithm Introduction and Implementation in CPP and Java
- o Bellman Ford Algorithm
- o Kosaraju's Algorithm
- Articulation Point
- o Bridges in Graph
- o Tarjan's Algorithm
- o Video Solutions for some standard and complex problems
- o More Problems for Practice.

• Greedy Algorithm:

- Introduction
- Activity Selection Problem in CPP and Java
- o Fractional Knapsack in CPP and Java
- Job Sequencing Problem
- Huffman Coding
- o Video Solutions for some standard and complex problems
- o More Problems for Practice.

BackTracking:

- Concept of Backtracking
- o Problems: Rat In Maze, N Queen, Sudoku
- More Problems for Practice.

• Dynamic Programming:

- Introduction
- Memoization
- Tabulation
- LCS and its variations
- o Coin Change
- KnapSack
- LIS and its variations
- Egg Drop Puzzle
- Subset Sum
- o Matrix Chain Multiplication
- o Palindrome Partitioning
- Video Solutions for some standard and complex problems
- More Problems for Practice.

• Trie:

- Introduction
- o Insert, Search, Delete
- o Video Solutions for some standard and complex problems
- More Problems for Practice.

Segment Tree:



- Introduction
- Construction
- o Range and Update Query
- o More Problems for Practice.

Disjoint-Set

- Introduction
- Union-Find
- Union By Rank
- Path Compression
- o Kruskal's Algorithm
- o More Problems for Practice

6) Object Oriented Analysis and Design

Object oriented Analysis and Design Concepts

- Introduction to Object and Classes.
- Software Development Process.
- UML and its importance.
- Class Diagrams & Object Diagrams
- Use-case Diagrams

Object-oriented Analysis and Design Case Studies: Complete step by step design and analysis of below case studies.

- BookMyShow: Movie ticket booking application.
- MyFlipCart: Complete e-commerce application.
- ParkingLot: Automated Solution for Parking-Lots.
- BlackJack: Most popular card game in casinos.

7) CS Subjects

- Operating System
- Operating System and its Types
- o Multiprogramming, Multiprocessing, Multithreading
- o Process Management and Scheduling



- o Process Synchronization.
- Deadlock
- Memory Management
- Database Management System
- Introduction to DBMS
- Architectures
- o ER Model
- o Relational Model
- Keys in Relational Model
- Database Normalization
- Normal Forms
- Concurrency Control
- o Indexing in Database
- o B+ Tree Introduction
- o SQL
- Computer Networks:
- Introduction to Computer Networks
- TCP/IP vs OSI Model
- Circuit Switching vs Packet Switching
- Flow Control Protocols
- o IP and Classful Addressing
- Classless Addressing
- Routing Protocols
- ARP & DHCP
- Transport Layer
- o TCP & UDP
- Application Layer
- Subject Wise Most Asked Interview Questions
- Virtual Memory

8) Aptitude and Reasoning

QUANTITATIVE ANALYSIS

- Number System Numbers, Prime & Composite Numbers, Co-Prime numbers,
- **Divisibility Test** Divisibility, Factor, Prime Factor, Divisibility Rules(2, 3, 4,, 10, 11)
- HCF and LCM Listing Multiples, Prime Factorization, Division method, etc.
- **Decimals Fractions** Fractions, Decimals, Decimal Fractions, Recurring Decimals.
- Squares & Cubes Square, Cube, Square Root, Cube Root



- Average Mean, Median and Mode
- **Age** Various techniques to solve age problems.
- **Log** Log Function, Common Log, Natural Log, Binary Log, Laws of Logarithms.
- **Percentage** Percentage, Fractions of Percentages, Expenditure, Price, Consumption, Population, Depreciation, ...
- Profit, Loss & Discount CP, SP, MP, Profit, Loss, Discount, ...
- Ratio And Proportion Ratio, Proportion, Compounded Ratio, Mean Proportional, Componendo, Dividendo, Directly Proportional, Inversely Proportional.
- Partnership Various types of Partnership and Partners.
- Pipe and Cistern | Part 1
- Pipe and Cistern | Part 2
- Time And Work Problems on Time, Work and Efficiency.
- Work and Wages | Part 1
- Work and Wages | Part 2
- Speed, Distance and Time | Part 1
- Speed, Distance and Time | Part 2
- Boats and Streams Downstream, Upstream, Average Speed,...
- **Trains** Problems in same and opposite Direction.
- Simple Interest
- Compound Interest | Part 1
- Compound Interest | Part 2
- Area Rectangle, Square, Triangle etc.
- Volume Cube, Cuboid, Cylinder, Cone, Sphere, Hemisphere,
- Race Race, Winner, Dead Heat Race, etc.
- Clocks Problems related to angle between hands.
- Calendars Day, Week, Month, Year, Leap Year, Non-Leap year, Odd days etc.
- **Height Distance** Heights, Height, Distance, Angle of Elevation, Depression, Trigonometry Ratio, Conversion
- **Series And Sequence** AP, GP, HP.

LOGICAL and VERBAL REASONING

LOGICAL REASONING -

- Introduction,
- Data Sufficiency,
- Data Interpretation,
- Blood Relations,
- Sequence and Series,
- o Direction Test,
- o Mathematical Operations,



- o Syllogism.
- VERBAL APTITUDE -
 - Verbal Ability
 - Reading Comprehension
 - Vocabulary Section
 - Vocabulary Reasoning Section

• BASICS OF GRAMMAR 1 -

- Section
- Clause
- Phrase
- o Parts of Speech
- Nouns
- Gerunds
- Pronouns
- Verbs
- Adjectives.
- Adverbs

BASICS OF GRAMMAR 2 -

- Prepositions
- Conjunctions
- Subordinating Conjunctions
- Tenses
- Interjections
- ARTICLE -
- ACTIVE VOICE & PASSIVE VOICE -
 - Use with Tenses
- CLOSET TESTS -
 - Problem Solving
- PASSAGE FORMATION -
 - Problem Solving
- SENTENCE FORMATION -
 - Problem Solving
- SENTENCE COMPLETION-
 - Problem Solving

• SUBJECT VERB and AGREEMENT -

- General Rule
- Multiple Subjects
- Inverted Sentences
- o There is & There are
- Collective Nouns
- Or and Nor
- o Indefinite Pronouns



Number Of and Percentage Of

• **DETERMINERS**

o Demonstration and Use

MODIFIERS

- General Rules
- Problem Solving
- Dangling Modifiers

• PARALLEL STRUCTURE

- General Rules
- o Problems with Articles, Infinitives, and Prepositions.
- Conjunction Pairs
- Comparing and Contrasting

• GRAMMAR EXERCISE -

- Subject-Verb Agreement
- Pronouns
- Verbs
- Parallel Structure
- Modifiers
- Adjectives and Adverbs

• ERROR SPOTTING

- Types of Errors
- Problem Solving

• PARAJUMBLES

Problem Solving

• VERBAL ANALOGIES

Problem Solving