Data Structure	
SOURCE: 01	**Data Structure (GATE EXAM)**
01	Roadmap of DSA Syllabus
02	Introduction to Data Structure with Real Life Examples
03	Arrays in Data Structure | Initialization, Declaration, Memory Representation
04	Types of Array | One Dimensional and Multi-dimensional Array
05	Addressing in One Dimensional Array
06	Arrays | Addressing in 2D Arrays | Row Major Order
07	3D Arrays | Addressing in 3D Arrays | Row Major Order
08	Addressing in Lower Triangular Matrix
09	Find 2nd Largest Number in Array
10	Two Pointer Technique | Two Sum Problem in Data Structure
11	Maximum Sum Subarray Problem | Understand Naïve Approach
12	Sliding Window Technique
13	Remove Duplicate Elements in Sorted Array | Various Methods
14	Linear Search in Data Structure | Time Complexity
15	Binary Search in Data Structure
16	Introduction to Linked List | Types and Need of Linked List
17	Arrays vs Linked List
18	Single Linked List in Data Structure | Self Referential Structure
19	The Basic Operations of Linked List
20	Traversing in Linked List
21	Insert a Node At The Beginning of Linked List
22	Insert a Node At the End of Linked List
23	Insert a Node After a Given Node in Linked
24	Delete a Node From The Beginning of Linked List
25	Delete a Node From The End of Linked List
26	Deletion After a Given Node in Linked List
27	Deleting Entire Linked List | Single Linked List
28	Introduction to Double Linked List
29	How to Find a Cycle in Linked List | 2 Pointer Algorithm
30	Introduction to Stack | PUSH and POP Operations
31	PUSH Operation Using Array | Implementation of Stack
32	POP Operation Using Array | Implementation of Stack
33	PUSH Operation Using Linked List | Implementation of Stack
34	POP Operation Using Linked List | Implementation of Stack
35	Recursion vs Loop | How Both Approaches Work
36	Infix, Prefix and Postfix with Examples
37	Infix to Prefix Conversion | Infix to Prefix Conversion with Examples
38	Infix to Postfix Conversion | Infix to Postfix Conversion with Examples
39	Infix to Prefix Conversion Using Stack
40	Infix to Postfix Conversion Using Stack
41	Question on Infix to Postfix notation
42	Postfix Expression Evaluation | Stack Application
43	Question On Postfix Evaluation | Stack
44	Understanding Call Stack with Example
45	The Magic Recursion: Understanding The Power of Recursive Function

46	Introduction to Queue Data Structure with Real Life Example
47	Enqueue(), Dequeue() and Other Operations on Queue
48	Dequeue() in Queue Using Array
49	Isfull() and isempty() in Queue | Queue Operations
50	Implementation of Queue Using Array | Enqueue() in Queue
51	Implementation of Queue Using Linked List | Euqueue() in Queue
52	Introduction to Trees | Binary Tree, Almost Complete Binary Tree | Full BT
53	Binary Search Tree in Data Structure | Insertion and Traversal in BST
54	Deletion From Binary Search Tree (BST) with Example
55	Find Preorder, Post-Order, In-Order of Binary Search Tree (BST)
56	Preorder, In-Order and Post-Order in 5 Minute | Tree Traversal | Easiest and Shortest
57	Question on Binary Search Tree
58	Introduction to AVL Tree in Data Structure with Example
59	How to Crate AVL Tree | LL, RR, LR, RL Rotation in AVL
60	AVL Tree Creation in Data Structure | All Points
61	Time Complexities of All Trees | Binary Tree, Binary Search Tree, AVL Tree, Heap Tree
62	Introduction to Red-Black Tree
63	Insertion in Red Black Tree
64	Topological Order / Sort in DAG (Direct Acyclic Graph)

Design Pattern	
SOURCE: 01	**Design Patterns**
01	What are Design Patterns | Introduction to Design Patterns and Principles
02	The Singleton Pattern Explained and Implemented in Java | Creational Pattern
03	The Factory Method Pattern Explained and Implemented in Java | Creational Pattern
04	The Abstract Factory Patten Explained and Implemented | Creational Pattern
05	The Builder Pattern Explained and Implemented in Java | Creational Pattern
06	The Prototype Pattern Explained and Implemented in Java | Creational Pattern
07	The Chain of Responsibility Pattern Explained and Implemented | Behavioral Pattern
08	The Command Pattern Explained and Implemented in Java | Behavioral Pattern
09	The Template Method Pattern Explained Implemented in Java | Behavioral Pattern
10	The Mediator Pattern Explained and Implemented in Java | Behavioral Pattern
11	The Memento Pattern Explained and Implemented in Java | Behavioral Pattern
12	The Observer Pattern Explained and Implemented in Java | Behavioral Pattern
13	The State Pattern Explained and Implemented in Java | Behavioral Pattern
14	The Iterator Pattern Explained and Implemented in Java | Behavioral Pattern
15	The Visitor Pattern Explained and Implemented in Java | Behavioral Pattern
16	The Adapter Pattern Explained and Implemented in Java | Structural Pattern
17	The Bridge Pattern Explained and Implemented in Java | Structural Pattern
18	The Composite Pattern Explained and Implemented in Java | Structural Pattern
19	The Decorator Pattern Explained and Implemented in Java | Structural Pattern
20	The Façade Pattern Explained and Implemented in Java | Structural Pattern
21	The Flyweight Pattern Explained and Implemented in Java | Structural Pattern
22	The Proxy Pattern Explained and Implemented in Java | Structural Pattern