





Total Problems: **50**
































Python Advanced Coding Problems

Point Scored - **609/715**

Completion Percentage : **100%** (80% required + 20% Optional)

#	Code Challenge	Completed	Difficulty	Company 1	Company 2	Participants 	Success Rate ( %)
1	Longest Palindromic Substring	<input checked="" type="checkbox"/>	HARD	Amazon	Tutorialspoint	49	48.98%
2	Solve the N-Queens Problem	<input checked="" type="checkbox"/>	HARD	Google	TCS	27	55.56%

3	Maximum Flow in a Flow Network		HARD	Facebook	Shopify	10	80%
4	Minimum Spanning Tree (MST)		HARD	Amazon	Facebook	7	71.43%
5	Shortest Path in a Graph		HARD	Cognizant	Walmart	7	85.71%
6	Topological Sort		HARD	EY	Google	7	71.43%
7	Number of Connected Components in a Graph		HARD	HCL Technologies	TCS	6	100%
8	All Subsets of a Set (Power Set)		HARD	Accenture	Facebook	6	100%
9	Maximum Subarray Sum		HARD	Deloitte	Google	5	100%
10	Solve the 0/1 Knapsack Problem		HARD	Adobe	EY	5	100%
11	Edit Distance Between Two Strings		HARD	Facebook	Goldman Sachs	6	83.33%
12	Find the Longest Increasing Subsequence		MEDIUM	Capgemini	Tech Mahindra	5	100%
13	Check if a Graph is Bipartite.		HARD	IBM	Tutorialspoint	5	100%
14	Kth Largest Element .		HARD	Accenture	Cognizant	7	57.14%
15	Generate All Permutations of a String.		MEDIUM	KPMG	Wipro	5	80%
16	Perform Matrix Multiplication.		MEDIUM	Facebook	Wipro	5	100%
17	Find the Longest Common Subsequence (LCS) of Two Strings.		MEDIUM	Google	Tutorialspoint	5	100%
18	Binary Search Algorithm		HARD	Google	Tutorialspoint	6	100%
19	Bank Account Representing		HARD	PwC	Snowflake	5	100%
20	Student Management System		HARD	Snowflake	Tech Mahindra	5	80%
21	Point in 2D Space and Distance Calculation		HARD	Deloitte	Facebook	5	100%
22	Library Management System		HARD	Deloitte	Google	11	36.36%
23	Implement a Queue Using a List		HARD	Microsoft	PwC	6	66.67%
24	Linked List from Scratch		HARD	Snowflake	Tech Mahindra	5	100%
25	Implement a Graph Data Structure Using Adjacency List		HARD	Google	Dictionaries	5	100%
26	Complex Numbers and Overload Operators		HARD	Amazon	Microsoft	5	100%
27	Stack Using a List		HARD	Amazon	Google	5	100%
28	A* Search Algorithm for Path Finding		HARD	Amazon	Tutorialspoint	5	60%
29	Bloom Filter for Efficient Set Membership Testing		HARD	Amazon	Google	5	100%
30	Real-time Chat Application Backend		HARD	Microsoft	Wipro	6	66.67%

31	Create a Web Scraper with Rate Limiting and Caching		HARD	IBM	Microsoft	5	100%
32	Find Median of Two Sorted Arrays		HARD	Accenture	Dropbox	5	100%
33	LRU Cache (Least Recently Used Cache)		MEDIUM	Google	Tech Mahindra	5	80%
34	RandomizedSet		MEDIUM	Goldman Sachs	TCS	5	80%
35	Segment Tree for Range Queries		HARD	eBay	Google	5	100%
36	Skyline Problem (Building Outline Problem)		HARD	eBay	Microsoft	5	100%
37	Find Shortest Distance Between Words in a Text		MEDIUM	Facebook	Wipro	5	100%
38	Regular Expression Matcher		MEDIUM	Facebook	Shopify	7	71.43%
39	Recommendation System		HARD	Amazon	Google	5	60%
40	MapReduce Framework for Distributed Computing		HARD	Goldman Sachs	Microsoft	6	66.67%
41	In-Memory Database with Transaction Support		HARD	Amazon	Google	9	55.56%
42	Trie (Prefix Tree) Data Structure		HARD	Apple	HCL Technologies	4	100%
43	URL Shortener Service with Analytics		MEDIUM	EY	Samsung	4	75%
44	Multi-threaded Web Server		MEDIUM	Amazon	Google	4	75%
45	Min-Max Algorithm for Game Playing		HARD	HCL Technologies	Zomato	4	75%
46	Valid Binary Search Tree		HARD	Google	Tutorialspoint	10	70%
47	All Valid Parentheses Combinations		HARD	KPMG	Samsung	3	100%
48	Binary Heap and Heap Sort Algorithm		HARD	eBay	Wipro	7	42.86%
49	Binary Tree Traversals		HARD	Google	Tutorialspoint	8	50%
50	Serialize and Deserialize a Binary Tree		HARD	Accenture	EY	4	100%