🚀 INFOSYS DIGITAL / HIGHER ROLE – 90-DAY DAILY STUDY PLAN (C++)

Daily Study Time: 4 Hours
Split:

- 1 hr – Aptitude

- 2 hrs – DSA + Coding

- 1 hr – CS Fundamentals / Revision

WEEK 1–2: C++ CORE + BASIC APTITUDE

Day	DSA / C++	CS / Revision	Aptitude	Coding Practice
1	Variables, I/O	OOPS Intro	Percentages	Print array, sum array
2	Loops	Class & Object	Ratio & Proportion	Factorial, Fibonacci
3	Functions	DBMS Keys	Profit & Loss	Reverse string, palindrome
4	Arrays	DBMS Normalization	Averages	Max/min in array
5	Strings	OOPS Encapsulation	Simple Time & Work	String concat, substring
6	2 Coding Problems	Revision	Aptitude Mock	Array sum, pattern printing
7	Revise weak topics	Re-solve mistakes	Light coding	String reverse, basic stack
8	Arrays search & rotation	OOPS Polymorphism	Time & Work	Rotate array, prefix sum
9	Strings manipulation	DBMS Queries	Time, Speed & Distance	Count vowels, reverse words

10	Stack basics	OS Process/Thread	Reasoning Puzzles	Valid parentheses, stack push/pop
11	Queue basics	OS Scheduling	Coding-Decoding	Queue enqueue/dequeue
12	STL Intro	CN OSI Model	Number Series	Vector, map usage
13	2 Coding Problems	Revision	Aptitude Mock	Stack, Queue problems
14	Revise weak areas	Redo mistakes	Light coding	Arrays & Strings review

WEEK 3–6: INTERMEDIATE DSA + ADVANCED APTITUDE

Day	DSA / C++	CS / Revision	Aptitude	Coding Practice
15	Trees Intro	OOPS Advanced	Time & Work	Binary tree traversal
16	BST Intro	DBMS SQL	Speed & Distance	Insert/search BST
17	Heap / Priority Queue	OS Scheduling	Reasoning	Heapify, priority queue usage
18	Recursion Intro	CN Advanced	Puzzles	Factorial, Fibonacci, backtracking
19	Recursion + Backtracking	OOPS	Mixed Aptitude	N-Queens, subset generation
20	Graphs Intro (BFS/DFS)	DBMS	Mock Aptitude	BFS traversal, DFS traversal
21	Graphs Problems	OS	Mixed	Connected components, cycle detection
22	DP Intro (Fibonacci, Knapsack)	CN	Quant	0/1 Knapsack, Coin Change
23	DP problems	OOPS	Reasoning	LIS, max sum subsequence
24	STL Advanced	DBMS	Mock Test	Map, set problems

25	Coding Practice	OS	Mixed	Array + Strings combined problems
26	Mock Coding	Revision	Aptitude	Solve previous 5 coding problems
27	Weak Topic Focus	Revision	Light coding	Re-solve failed problems
28	Revision	Revision	Mixed	Review all DSA topics
29–42	Trees, Graphs advanced, DP, STL, Recursion, Backtracking	OOPS, DBMS, OS, CN review	Full aptitude mocks	2–3 Medium coding problems/day

WEEK 7–12: ADVANCED DSA + MOCKS

- **DSA:** Advanced Arrays, Strings, Stack, Queue, Trees, Graphs, DP, Backtracking

- **CS:** OOPS (polymorphism, virtual functions), DBMS (joins, indexing), OS (scheduling, deadlock), CN (TCP/UDP, HTTP/HTTPS)

- **Coding Practice:** 3–4 problems/day (Medium/Advanced LeetCode)

- **Aptitude:** Full-length mocks + weak area focus

WEEK 13–16: DIGITAL ROLE FINAL PREP

- **DSA:** 2–3 Medium/Advanced coding problems/day

- **CS Fundamentals:** STL internals, OOPS, SQL, OS, CN revision

- **Interview Prep:**

  ○ Explain DSA & DP solutions

  ○ Explain OOPS concepts & SQL queries

  ○ Project discussion & HR preparation

- **Weekend:** Full-length coding + aptitude mocks, review errors

DAILY ROTATION EXAMPLE

Day	DSA Focus	CS Subject	Aptitude
Mon	Arrays	OOPS	Quant
Tue	Strings	DBMS	Reasoning
Wed	Stack	OS	Verbal
Thu	Queue	CN	Mixed
Fri	Recursion / DP	Revision	Quant
Sat	Mock coding	Mock CS	Mock Aptitude
Sun	Weekly Revision	Redo mistakes	Light coding

RESOURCES

- **DSA (C++):** Striver A2Z, Apna College, Love Babbar

- **Coding Practice:** LeetCode, HackerRank, GeeksforGeeks

- **Aptitude:** IndiaBix, PrepInsta, R.S. Aggarwal

- **CS Fundamentals:** Gate Smashers, GeeksforGeeks