

Roadmap to top IT Firms

[Aptitude Test Prep](#)

<u>Sr. No</u>	<u>Pattern</u>	<u>Link</u>
1	Fractions & Decimals	YT
2	Permutation & Combination	YT
3	Probability	YT
4	Mixtures & Allegations	YT
5	Ratio & Proportion	YT
6	HCF & LCM	YT
7	Work & Wages	YT
8	Simple Interest	YT
9	Compound Interest	YT
10	Profit & Loss	YT
11	Speed, Distance, Time	YT
12	Percentage	YT
13	Time & Work	YT
14	Boats & Streams	YT
15	Trains	YT
16	Pipes & Cisterns	YT
17	Partnerships	YT
18	Ages	YT
19	Chain Rule	YT
20	Area & Perimeter	YT
21	Volume & Surface Area	YT
22	Height & Distance	YT

Mock Aptitude Test & Practice

① Indiabix Online Aptitude Practice

Aptitude questions and answers for your placement interviews and competitive exams!

Link: [Click Here](#)

② Aptitude-Test

Test preparation that makes a difference

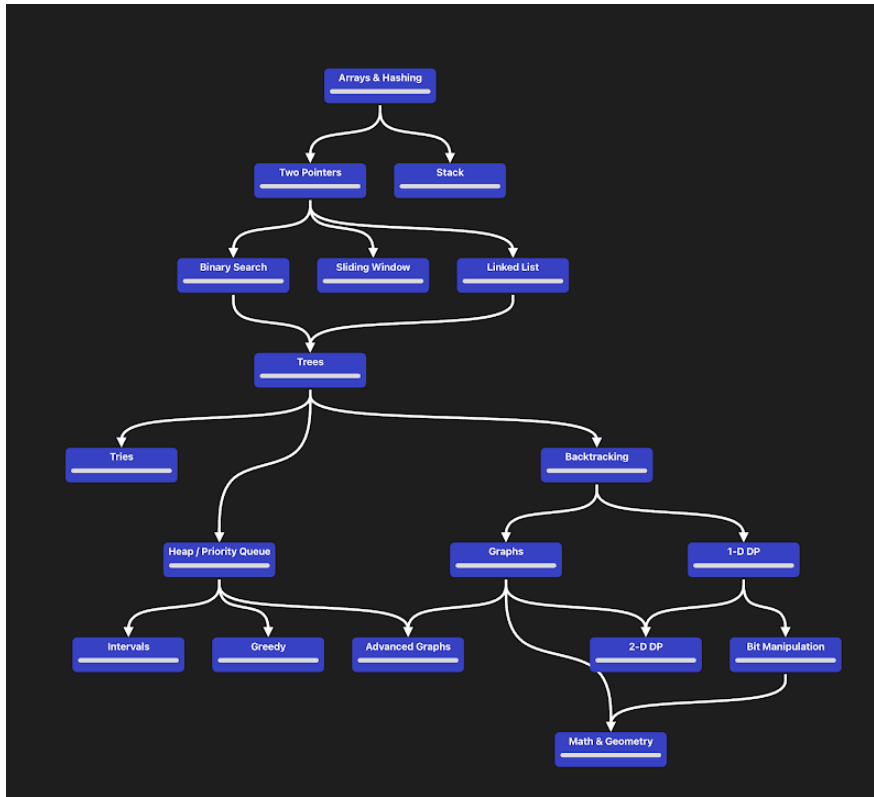
Link: [Click Here](#)

③ Testbook Mock Test

One Destination for Complete Exam Preparation

Link: [Click Here](#)

★ Data Structures & Algorithms



1 DSA in C++

Video Lectures: [Youtube Playlist](#)

2 DSA in Java

Video Lectures: [YouTube Playlist](#)

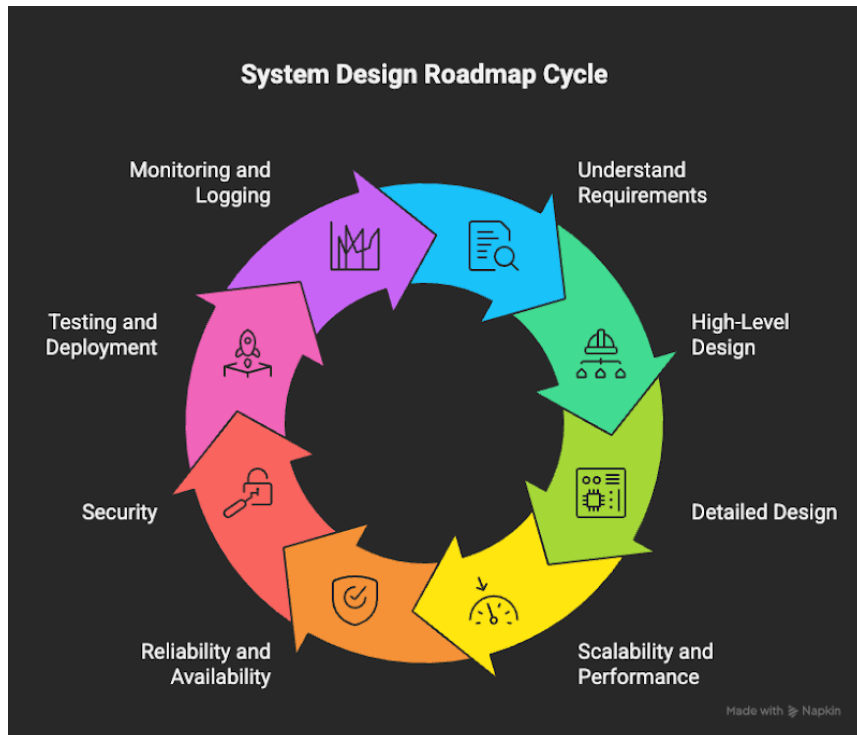
3 DSA in Python

Video Lectures: [YouTube Playlist](#)

4 DSA Tracker Sheet

Sheet Link: [Google Sheets](#)

★ System Design



→ Fundamentals

Sr No	Topic	Link
1	API Design	YT
2	API Gateway	YT
3	Json Web Token	YT
4	Webhooks	YT
5	Load Balancing	YT
6	Proxy vs Rev Proxy	YT
7	CAP Theorem	YT
8	Sharding	YT
9	Caching	YT

10	Scaling	<u>YT</u>
11	Availability	<u>YT</u>
12	Services	<u>YT</u>
13	Databases	<u>YT</u>
14	Data Sharding & Partitioning	<u>YT</u>
15	REST	<u>YT</u>
16	Distributed Systems	<u>YT</u>
17	SQL vs No SQL	<u>YT</u>
18	ACID Transactions	<u>YT</u>
19	Consistent Hashing	<u>YT</u>
20	CDC	<u>YT</u>
21	Caching	<u>YT</u>
22	Caching Strategies	<u>YT</u>
23	Cache Eviction	<u>YT</u>
24	CDN	<u>YT</u>
25	Rate Limiting	<u>YT</u>
26	Message Queues	<u>YT</u>
27	Bloom Filters	<u>YT</u>
28	Idempotency	<u>YT</u>
29	Concurrency vs Parallelism	<u>YT</u>
30	Long Polling vs Websockets	<u>YT</u>
31	Stateful vs Stateless	<u>YT</u>
32	Batch vs Stream	<u>YT</u>
33	Sync vs Async	<u>YT</u>