

---

---

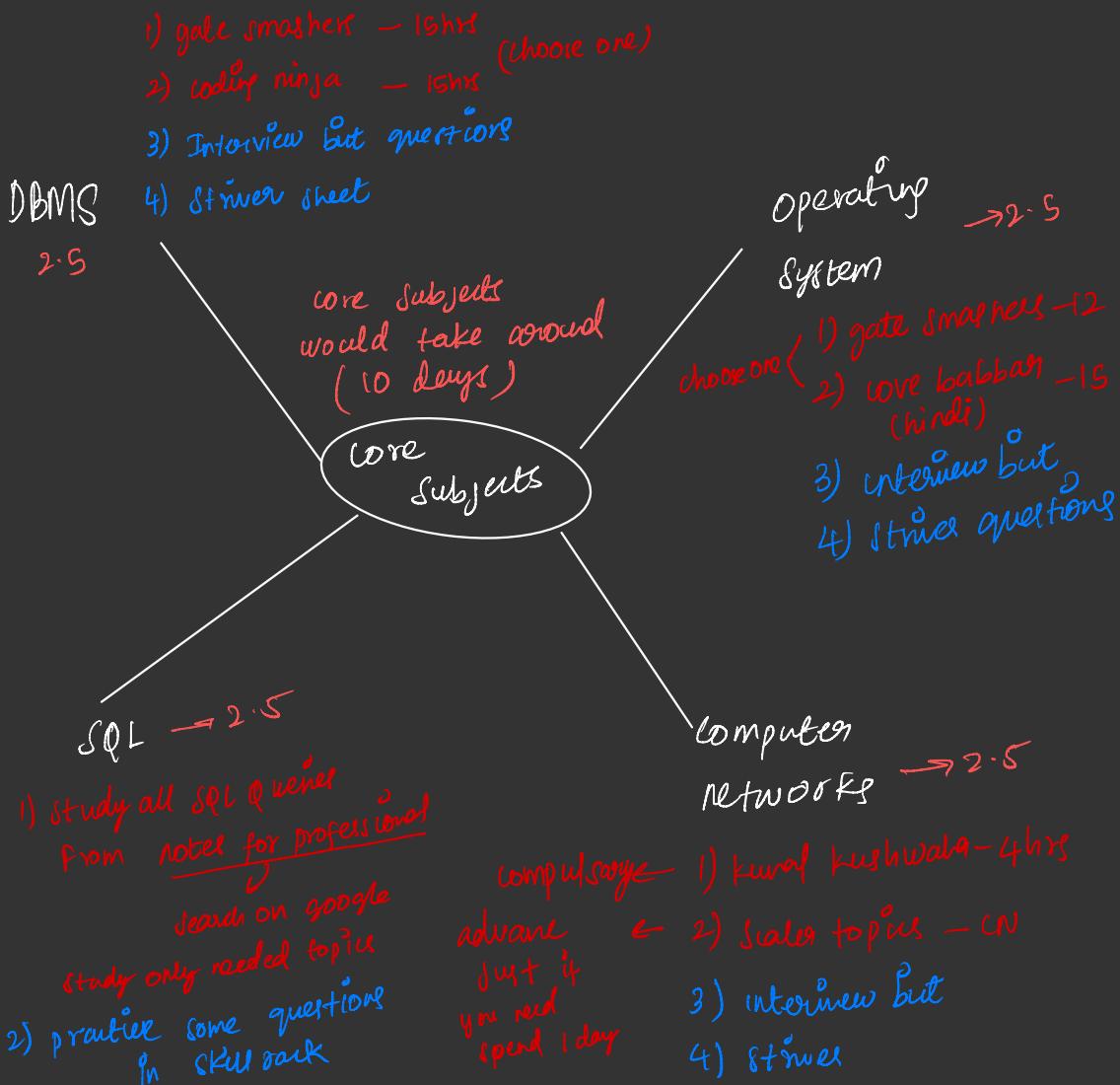
---

---

---



- 1) apti
- 2) coding
- 3) core subjects



## Additional topics

- 1) oppl → kunal kushwaha (or) breadth notes
- 2) mongodb → notes for professionals
- 3) machine learning → siddharthan machine learning  
in his course
- 4) python → scalar topics
- 5) Data Structures and Algo → Scalar topics
- 6) reactjs → notes for professionals,  
Balachandran (tamil)  
Dave gray (english)
- 7) nodejs → Balachandran, dave gray, b pack  
programmer  
(hindi)
- 8) Express → some resources

In the above topics just learn  
according to the preference, resume

①, ⑤ → must

## coding

Array →

[ Topics needed to be covered before Array

① collections → gfg, w3schools      (o) felusko  
java

↳ ↳ ↳  
ArrayList    Map    HashSet

only important .

② learn Important Array methods like

Array.sort

Math.max

Math.min

3) java syntax

]

problems List

- ① 283. move zeros
- ② 189. rotate array
- ③ 268. missing number
- ④ 455. max consecutive ones
- ⑤ 136. single number

- ⑥ 2 sum problem
- ⑦ sort colors
- ⑧ majority element - I, II
- ⑨ kadane's algo
- ⑩ stock buy and sell  $\rightarrow$  I, II
- ⑪ next permutation
- ⑫ longest consecutive sequence
- ⑬ set matrix zero
- ⑭ rotate image
- ⑮ spiral matrix
- ⑯ subarray sum equals K
- ⑰ pal calls Triangle
- ⑱ 3-sum
- ⑲ maximum product subarray
- ⑳ product of subarray except itself
- ㉑ contains duplicate
- ㉒ Trapping rain water

(23) container with most water

Binary Search  $\rightarrow$  learn concept

strings

(24) generate strings

(25) valid parentheses

(26) remove outermost parenthesis

(27) isomorphic strings

(28) valid anagram

(29) buddy strings

(30) palindrome partitioning

(31) longest palindrome

(32) longest common prefix

Linked list:

(33) reverse a linked list

(34) linked list cycle

(35) merge two sorted lists

(36) remove nth node from end of list

(37) merge intervals  $\rightarrow$  not linked list

## Recursion:

- (38) combination sum
- (39) combination sum-II
- (40) subset sum-I
- (41) subset sum-II
- (42) letter combinations of phone number
- (43) permutations -I, II
- (44) N-queens
- (45) Rate in a maze
- (46) sudoko solver
- (47) word search

## dynamic programming:

- (48) climbing stairs
- (49) coin change
- (50) house robber
- (51) house robber -2
- (52) unique paths
- (53) minimum path sum
- (54) minimum path sum in Transpose grid

- (51) 0/1 knapsack
- (52) rod cutting problem
- (53) minimum coins
- (57) Target sum
- (58) unbounded knapsack
- (59) longest common subsequence
- (60) longest palindromic subsequence
- (61) minimum number of insertions/deletions  
to make string O  
palindromic
- (62) Edit distance
- (63) longest increasing subsequence
- (64) jump game -1
- (65) jump game -2

$\leftarrow \quad X \quad \rightarrow$

Mis:

- (66) is subsequence
- (67) minimum size subarray sum
- (68) longest substring without repeating character

(69) minimums under substring

(70) random note

(71) word pattern

(72) contains duplicate -D

(73) simplify path

(74) Add two numbers

(75) CRC cache

(76) game of life

(77) Number of Islands

(78) clone graph

(79) course schedule



non-linear datastructure:

① graphs → BFS, DFS, flood fill, rotten oranges, cycle detection, topological sort,

Kahn's Algo

Dutta, Bell man Ford, Floyd warshall, Prim,  
Kruskal

Tree  $\rightarrow$  Tree traversal  $\rightarrow$  In, pre, post order

[Learn infix, postfix, prefix  
stack ]

$\rightarrow$  height, size, max/min in tree

$\rightarrow$  level order traversal

$\rightarrow$  top, left, right, Bottom, <sup>0</sup>reen of  
tree



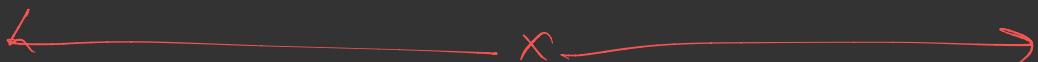
programiz  $\rightarrow$  website

stack, queue, types of que just  
read all concept

programiz  $\rightarrow$  dsa

apt' → simple, compound, pipes and  
cylinders,  
Date, clock, profit and loss,  
Mixture and Allegation, probability,  
permutations, Age

feel free to learn → more youtube  
channel are there  
Just practice questions.



coding → concepts + 80 - 90 problems.

15 - 20 days depend  
on speed.

Approx timing : 20 days for all;  
Includes Apt' & coding  
+ core subjects

All the best ☺

