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- 1. Find maximum and minimum
- 2. Make larger number
- 3. Next larger palindrome
- 4. Least difference in array
- 5. Print matrix spiral
- 6. Move zeros to the right
- 7. Find repetition multiple sorted arrays
- 8. Largest sum sub array
- 9. Search in a sorted matrix
- 10. Kth largest in sorted matrix
- 11. Largest palindrome iterative
- 12. Reverse words of sentence

We are presenting a collection of data structure and algorithm questions and answers for technical interviews for software companies. Questions are collected from real interviews of companies like Microsoft, Amazon, Facebook, Google or Yahoo. Ouestions are solved and the solutions are discussed in an optimal way which enables you to do a quick preparation for interview. A complete running Java program is added with each problem which you can copy and run in your IDE to understand the solution in a better way. Your feedback is very much appreciated. Please help the site grow by sharing your own problem and solutions or suggestions. Please contact us through feedback@dsalgo.com

Categorized content

	Rolate array k times	Array
	Merge in single array	
15.	Rotate a string to make	Find maximum and minimum
	<u>another</u>	<u>Make larger number</u>
16.	Maximum product	Next larger palindrome
	subarray	Least difference in array
17.	<u>Maximum sum sub</u>	Print matrix spiral
	matrix	Move zeros to the right
	Expand the array	_
19.	Sort to bring anagrams	Find repetition multiple sorted arrays
	closer	<u>Largest sum sub array</u>
	Two missing numbers	Search in a sorted matrix
21.	Maximize stock profit	Kth largest in sorted matrix
0.0	simple	Largest palindrome iterative
22.	Sum of array except	Reverse words of sentence
22	<u>current element</u>	Rotate array k times
∠ 3.	Maximum arithmetic	Merge in single array
24	Sequence Deverse linked list	
∠4 .	Reverse linked list	Rotate a string to make another
25	iterative Poverse lipked list	Maximum product subarray
25.	Reverse linked list recursive	<u>Maximum sum sub matrix</u>
26	Fold a linked list	Expand the array
	Reverse k nodes in	Sort to bring anagrams closer
۷,	linked list	Two missing numbers
28	Find loop in linked list	Maximize stock profit simple
	Linked list Y shape	Sum of array except current element
	Kth node from end	•
31.		Maximum arithmetic sequence
•		

Linked list

32. Calculate power

- 33. Next power of two
- 34. Total 1s in numbers till n
- 35. Swap without temp
- 36. Array next element
- Stack with get minimum
- 38. Sort a stack
- 39. Find all permutations
- 40. Find all paths in a maze
- 41. Find longest path in maze
- 42. Towers of Hanoi
- 43. Snakes and ladders
- 44. Queue using stack
- 45. Queue minimum using stack
- 46. Shortest path in a maze
- 47. All unique letter substring
- 48. Linked list remove duplicate
- 49. Are two words anagram
- 50. Longest subarray equal 1 & 0
- 51. Pythagorean triples
- 52. Linked list with random pointer
- 53. Same average subset
- 54. Anagram substring search
- 55. Balance the balance

Reverse linked list iterative

Reverse linked list recursive

Fold a linked list

Reverse k nodes in linked list

Find loop in linked list

Linked list Y shape

Kth node from end

Get find delete in O(1)

BitsCalculate power

Next power of two

Total 1s in numbers till n

Swap without temp

Stack

Array next element

Stack with get minimum

Sort a stack

Find all permutations

Find all paths in a maze

Find longest path in maze

Towers of Hanoi

Queue

Snakes and ladders

Queue using stack

Queue minimum using stack

- 56. Lowest common ancestor
- 57. Sum of child nodes
- 58. Lowest common ancestor without root
- 59. Binary tree zigzag print
- 60. Print Binary tree bottom to top
- 61. Binary tree bottom to top level wise
- 62. Print Nodes of the same level
- 63. Linked list with inorder successor
- 64. Linked list with preorder successor
- 65. Linked list with postorder successor
- 66. Binary tree to linked list
- 67. Is the binary tree BST
- 68. Create tree from in and pre
- 69. Find root to node path
- 70. Find distance between two nodes
- 71. SuperImpose Binary Tree
- 72. Is a sum possible along any path
- 73 Remove duplicate infinite

Shortest path in a maze

Hash

All unique letter substring

Linked list remove duplicate

Are two words anagram

Longest subarray equal 1 & 0

Pythagorean triples

Map

Linked list with random pointer

Same average subset

Anagram substring search

Heap

Running Median

Maximum k integers using min heap

Max heap and BST in one

Merge N sorted arrays

Backtracking

Separate words in sentence

Increasing decreasing tuple

Tree

Balance the balance

Lowest common ancestor

Sum of child nodes

، ن.	integer	Lowest common ancestor without root
74	<u>integer</u> <u>Find deepest level nodes</u>	Binary tree zigzag print
	Maximum sum path	Print Binary tree bottom to top
	positive	Binary tree bottom to top level wise
76.	Maximum sum path	Print Nodes of the same level
	negative	Linked list with inorder successor
	Find Kth smallest in BST	Linked list with preorder successor
	BST with insertion order	Linked list with postorder successor
79.	Binary tree sum of odd levels	Binary tree to linked list
80	Level order without	Is the binary tree BST
00.	queue	
81.	- 	Create tree from in and pre
	nodes	Find root to node path
82.	Find all wrong pairs in a	Find distance between two nodes
	BST	SuperImpose Binary Tree
83.	Depth of tree from parent	<u>ls a sum possible along any path</u>
	array	Remove duplicate infinite integer
84.	BST from doubly linked	<u>Find deepest level nodes</u>
O.E.	list Dunning Madian	Maximum sum path positive
86.	Running Median Maximum k integers	Maximum sum path negative
<i>6</i> 0.	using min heap	Find Kth smallest in BST
87.	Max heap and BST in	BST with insertion order
0	one	Binary tree sum of odd levels
88.	Merge N sorted arrays	Level order without queue
89.	Find order of letters	Print level with maximum nodes
90.	Find longest interviewer	Find all wrong pairs in a BST
	<u>chain</u>	Donth of troo from parent array

91.	Find local minima	реритот нее пош рагель аггау
92.	Separate words in	BST from doubly linked list
	sentence	Multithreading
93.	Increasing decreasing	•
	<u>tuple</u>	Distributed doubly linked list sum
94.	Two numbers sum up to	<u>Distributed node sum of tree</u>
	<u>k</u>	<u>Distributed circular linked list sum</u>
95.	Two numbers sum up to	Graph
	k unsorted	•
96.	Any numbers sum up to k	<u>Find order of letters</u>
	<u>iterative</u>	Find longest interviewer chain
97.	Any numbers sum up to k	Divide and conquer
	recursive	•
98.	<u>Container loading</u>	<u>Find local minima</u>
0.0	<u>recursive</u>	Dynamic programming
99.	<u>Largest palindrome</u>	Two numbers sum up to k
400	dynamic	•
100.	<u>Longest common</u>	Two numbers sum up to k unsorted
101	<u>subsequence</u>	Any numbers sum up to k iterative
	Gold coins in pots game	Any numbers sum up to k recursive
	Partition array equal sum	Container loading recursive
103.	Find subset with given	Largest palindrome dynamic
104	<u>average</u>	Longest common subsequence
104.	Share price max profit	Gold coins in pots game
105	recursive	
105.	Increasing array	Partition array equal sum
106	subsequence Distributed doubly lipked	Find subset with given average
106.	Distributed doubly linked	Share price max profit recursive
107	list sum Distributed node sum of	Increasing array subsequence
TO 1.	DISTIDUICU HOUE SUITI OI	

108. Distributed circular linked list sum



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