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Arrays

Kth Row of Pascal's Triangle   Simulation array   Google

Rotate Matrix   Arrangement   Google   Facebook   Amazon   Zoho

Merge Intervals   Value ranges   Google   Amazon

Merge Overlapping Intervals   Value ranges   Google   Amazon   Directi   Fab

Add One To Number   Array Math   Google   Microsoft

N/3 Repeat Number   Missing / Repeated number   Google

Pascal Triangle   Simulation array   Google   Amazon

Max Distance   Sorting   Google   Amazon   Microsoft

Max Non Negative SubArray   Simulation array   Google

Wave Array   Sorting   Google   Adobe   Amazon   Zoho

Max Min   Value ranges   Google   Divide and conquer

System Design Concepts

Design Messenger   Amazon   Amazon Lab126   Facebook   Google   Twitter

Design Search Typeahead   Facebook   Google   ⟳   Got suggestions ? **We would love to hear your feedback.**   ✕

Math

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| Grid Unique Paths | Combinatorics | Google | Amazon | Microsoft | Adobe |

| Greatest Common Divisor | Number theory | NetApp | Google | TCS |

| Sum of pairwise Hamming Distance | Adhoc | Google |

| Next Smallest Palindrome! | Digit Op | Google | grofers | Math |

Descriptive Statistics

| Median over mean | Distribution Analysis: Univariate | Google | distributions |

Binary Search

| Median of Array | Sort modification | Amazon | VMWare | Google | Microsoft | Goldman Sachs | Trifacta | Hike |

| Search for a Range | Simple binary search | Google | Microsoft | Shopee |

| Implement Power Function | Search step simulation | Google | LinkedIn |

| Rotated Sorted Array Search | Sort modification | Facebook | Google | Microsoft | Amazon |

| Allocate Books | Search answer | Google | Flipkart |

| Painter's Partition Problem | Search answer | Google | Codenation | Amazon |

| Find a peak element | Google |

Strings

| Longest Common Prefix | string Simulation | Google |

| Multiply Strings | String math | Microsoft | Google |

| Justified Text | Pretty print | LinkedIn | Google | Directi |

| Minimum Parantheses! | string Tricks | Google | strings |

Bit Manipulation

| Single Number II | Bit array | Google | Amazon |

| Different Bits Sum Pairwise | Bit play | Google | Zenefits |

Two Pointers

| Intersection Of Sorted Arrays | Multiple arrays | Facebook | Google |

| Remove Duplicates from Sorted Array | Inplace Update | United Healthgroup | Amazon | Google | Microsoft | Expedia |

| Array 3 Pointers | Tricks | Google | Microsoft | Yahoo | Facebook |

| Container With Most Water | Tricks | Facebook | Google | Amazon | Adobe |

Linked Lists

| Sort List | List sort | Google | Zenefits |

| Insertion Sort List | List sort | Microsoft | Google |

Stacks And Queues

| Evaluate Expression | Stack math | Yahoo | Google | Facebook |

Largest Rectangle in Histogram `cleverstack` `Google` `Facebook` `Amazon` `OLX Group`

Sliding Window Maximum `Queue` `Google` Ch `Walmart labs` `Amazon` `Microsoft`

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Balanced Parantheses! `Stack simple` `Amazon` `Google` `stack`

Instructions from Interviewbit

Backtracking

All Unique Permutations `Microsoft` `Facebook` `Google`   Start Test

Permutations `Permutations` `Microsoft` `Adobe` `Google`

NQueens `Game solving` `Qualcomm` `Google` `Amazon`

Palindrome Partitioning `Bruteforce builder` `Amazon` `Google`

Hashing

Window String `Hashing two pointer` `Google` `Directi` `Flipkart` `Ola` `Zenefits`

Longest Consecutive Sequence `Amazon` `Google` `Directi` `Flipkart` `Tower Research Capital` `Uber Technologies Inc`

4 Sum `Hash Search` `Amazon` `Google`

Points on the Straight Line `Maths and hashing` `Google` `Amazon` `InMobi`

2 Sum `Hash Search` `Facebook` `Amazon` `Google`

Valid Sudoku `Hash Search` `Google` `Amazon`

Heaps And Maps

Merge K Sorted Lists `heap` `Flipkart` `Amazon` `Google`

Tree Data Structure

Least Common Ancestor `Tree search` `Facebook` `Adobe` `Microsoft` `Amazon` `Google`

Sum Root to Leaf Numbers `Root to leaf` `Google` `Microsoft`

Order of People Heights `Segment Tree` `Google`

Shortest Unique Prefix `Trie` `Google`

Invert the Binary Tree `Inplace Change` `Google`

Dynamic Programming

Max Rectangle in Binary Matrix `Matrix DP` `Google` `Microsoft`

Distinct Subsequences `2D string DP` `Google`

Palindrome Partitioning II `Breaking words` `Amazon` `Google` `Tower Research Capital`

Min Jumps Array `Greedy OR DP` `Amazon` `Ebay` `Google`

Edit Distance `2D string DP` `Google` `LinkedIn` `Microsoft` `Amazon` `Flipkart` `Ola` `PubMatic`

Word Break `Breaking words` `IBM` `Google`

Regular Expression II `2D string DP` `Facebook` `Microsoft` `Google`

Interleaving Strings `2D string DP` `Google` `Yahoo`

Word Break II `DP optimized backtrack` `IBM` `Google`

Longest valid Parentheses `DP tricky` `Google`

Repeating Sub-Sequence `2D string DP` `Google`   Got suggestions ? **We would love to hear your feedback.**   ✕

Rod Cutting `Matrix DP` `Google`

Intersecting Chords in a Circle `Simple array DP` `Directi` `Google` `Software ag` `urbanclap` `deshaw`

Sub Matrices with sum Zero `Suffix / prefix DP` Instructions from Interviewbit

Shortest common superstring `DP tricky` `Google` `dynamic programming`

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Increasing Path in Matrix `Matrix DP` `Google` `matrix` `dp`

Greedy Algorithm

Gas Station `Medium Greedy` `Bloomberg` `Google` `DE Shaw` `Amazon` `Flipkart` `Microsoft`

Majority Element `Medium Greedy` `Microsoft` `Yahoo` `Google` `Amazon`

Disjoint Intervals `Easy Greedy` `Google` `sorting`

Graph Data Structure & Algorithms

Convert Sorted List to Binary Search Tree `graph adhoc` `Google`

Capture Regions on Board `graph traversal` `Google`

Word Ladder II `Shortest path` `Google` `Microsoft` `Ebay`

Clone Graph `graph hashing` `Google` `Facebook` `Amazon`

Word Search Board `graph traversal` `Epic systems` `Amazon` `Google` `infoworks`

Word Ladder I `Shortest path` `Google` `Microsoft` `Ebay`

Largest Distance between nodes of a Tree `Depth first search` `Facebook` `Google` `DP on a tree` `Depth first search`

Water Flow `graph traversal` `Google` `dfs` `bfs`

Puzzles

Daughters' Ages `Logical deduction` `Google`

Cross the Bridge `Math` `Google` `Microsoft`

Divide the Cake `Geometry and shapes` `Google`

Eggs and Building `Math` `Google` `Nvidia`

Ratio of Boys and Girls `Math` `Google` `Goldman Sachs`

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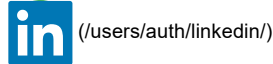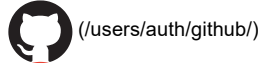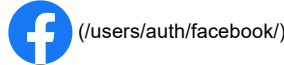Java Mcq (/java-mcq/)   Data Structure Mcq (/data-structure-mcq/)   Got questions? We would love to hear your feedback.ramming Mcq (/c-programming-mcq/)   ✕

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