

MATRIX

1. Rotate Matrix Elements (SAME TYPE, COMPANY)
2. Inplace rotate square matrix by 90 degrees | Set 1
3. Rotate a matrix by 90 degree without using any extra space | Set 2
4. Rotate each ring of matrix anticlockwise by K elements
5. Check if all rows of a matrix are circular rotations of each other
6. Sort the given matrix
7. Find the row with maximum number of 1s (COMPANY)
8. Find median in row wise sorted matrix
9. Find distinct elements common to all rows of a matrix (COMPANY)
10. Print a given matrix in spiral form (COMPANY)
11. Circular Matrix (Construct a matrix with numbers 1 to $m*n$ in spiral way)
12. Print a given matrix in counter-clock wise spiral form
13. Find unique elements in a matrix
14. Maximum path sum in matrix (COMPANY)
15. Print matrix in zag-zag fashion
16. Find the number of islands (COMPANY)
17. Count sub-matrices having sum divisible 'k'
18. Minimum operations required to make each row and column of matrix equals
19. Number of cells a queen can move with obstacles on the chessboard
20. Maximum product of 4 adjacent elements in matrix
21. Ways of filling matrix such that product of all rows and all columns are equal to unity
22. Find if there is a rectangle in binary matrix with corners as 1
23. Find all rectangles filled with 0
24. Shortest distance between two cells in a matrix or grid (COMPANY)
25. Search in a row wise and column wise sorted matrix (COMPANY)
26. Create a matrix with alternating rectangles of O and X
27. Unique cells in a binary matrix
28. Find row number of a binary matrix having maximum number of 1s (COMPANY)
29. Print all palindromic paths from top left to bottom right in a matrix
30. Possible moves of knight
31. Minimum operations required to set all elements of binary matrix
32. Find pair of rows in a binary matrix that has maximum bit difference
33. Find all permuted rows of a given row in a matrix
34. Print cells with same rectangular sums in a matrix
35. Find pairs with given sum such that elements of pair are in different rows
36. Total coverage of all zeros in a binary matrix
37. Queries in a Matrix
38. Maximum mirrors which can transfer light from bottom to right
39. Count zeros in a row wise and column wise sorted matrix
40. Shortest path in a Binary Maze
41. Print maximum sum square sub-matrix of given size
42. Common elements in all rows of a given matrix
43. A Boolean Matrix Question
44. Find the largest rectangle of 1's with swapping of columns allowed
45. Submatrix Sum Queries

46. Given a Boolean Matrix, find k such that all elements in k'th row are 0 and k'th column are 1.
47. Validity of a given Tic-Tac-Toe board configuration (COMPANY)
48. Maximum size rectangle binary sub-matrix with all 1s (COMPANY)
49. Maximum size square sub-matrix with all 1s (COMPANY)
50. Find sum of all elements in a matrix except the elements in row and/or column of given cell?
51. Count number of islands where every island is row-wise and column-wise separated
52. Find a common element in all rows of a given row-wise sorted matrix
53. Given a matrix of 'O' and 'X', replace 'O' with 'X' if surrounded by 'X'
54. Given a matrix of 'O' and 'X', find the largest subsquare surrounded by 'X'
55. Flood fill Algorithm – how to implement fill() in paint? (COMPANY)
56. Print all elements in sorted order from row and column wise sorted matrix
57. Given an n x n square matrix, find sum of all sub-squares of size k x k
58. Collect maximum points in a grid using two traversals (COMPANY)
59. Collect maximum coins before hitting a dead end
60. Number of paths with exactly k coins
61. Find length of the longest consecutive path from a given starting character
62. Find the longest path in a matrix with given constraints
63. Minimum Initial Points to Reach Destination
64. Divide and Conquer | Set 5 (Strassen's Matrix Multiplication)
65. Dynamic Programming | Set 27 (Maximum sum rectangle in a 2D matrix)

FIRST SEARCH ON YOUTUBE THERE IS SOME EASY WAY TO SOLVE THESE Q.

66. Magic Square | Even Order
67. Magic Square
68. Check given matrix is magic square or not
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