**Search in a Row-wise and Column-wise Sorted Matrix**

* Problem: Find a given element in a matrix sorted row-wise and column-wise.
* LeetCode: Search a 2D Matrix II

**Transpose of a Matrix**

* Problem: Convert rows into columns and vice versa.
* LeetCode: Transpose Matrix

**Rotate Matrix by 90 Degrees**

* Problem: Rotate a given NxN matrix clockwise by 90°.
* LeetCode: Rotate Image

**Spiral Traversal of a Matrix**

* Problem: Print the elements in a spiral order.
* LeetCode: Spiral Matrix

**Find Median in a Row-wise Sorted Matrix**

* Problem: Find the median of all elements in a row-wise sorted matrix.
* LeetCode: Find Median from Data Stream

**Search a 2D Matrix**

* Problem: Matrix is sorted row-wise and each row's last element is less than the first element of the next row.
* LeetCode: Search a 2D Matrix

**Find Kth Smallest Element in a Matrix**

* Problem: Matrix is sorted row-wise and column-wise.
* LeetCode: Kth Smallest Element in a Sorted Matrix

**Set Matrix Zeroes**

* Problem: If an element is 0, set its entire row and column to 0.
* LeetCode: Set Matrix Zeroes

**Matrix Multiplication**

* Problem: Multiply two matrices.
* LeetCode: Sparse Matrix Multiplication

**Maximum Size Square Sub-matrix with All 1s**

* Problem: Find the size of the largest square sub-matrix containing all 1s.
* LeetCode: Maximal Square

**Count Number of Islands in a Matrix**

* Problem: Matrix contains 0s and 1s; count connected components of 1s.
* LeetCode: Number of Islands

**Maximum Rectangle of 1s in a Binary Matrix**

* Problem: Find the largest rectangle containing only 1s.
* LeetCode: Maximal Rectangle

**Word Search in a Grid**

* Problem: Check if a word exists in a matrix (can move in 4 directions).
* LeetCode: Word Search

**Diagonal Traversal of a Matrix**

* Problem: Traverse the matrix diagonally.
* LeetCode: Diagonal Traverse

**Row with Maximum 1s**

* Problem: Find the row with the maximum number of 1s.
* LeetCode: Row with Maximum Ones

**Count Negative Numbers in a Sorted Matrix**

* Problem: Matrix sorted row-wise and column-wise; count negative numbers.
* LeetCode: Count Negative Numbers in a Sorted Matrix

**Sorted Matrix**

* Problem: Given a matrix, sort all elements and reconstruct it.
* LeetCode: [Sort the Matrix Diagonally](https://leetcode.com/problems/sort-the-matrix-diagonally/)

**Boolean Matrix Problem**

* Problem: If any cell is 1, set its entire row and column to 1.
* LeetCode: Set Matrix Zeroes

**Matrix Chain Multiplication**

* Problem: Find the minimum number of scalar multiplications needed to multiply a chain of matrices.
* LeetCode: Minimum Cost to Merge Stones

**Snake-Like Pattern in a Matrix**

* Problem: Traverse the matrix in a zigzag (snake-like) pattern.
* LeetCode: Diagonal Traverse II