



MATRIX &BIT MANIPULATION - SET 1 QUESTIONS

Question 1:

Problem link: https://leetcode.com/problems/search-a-2d-matrix/

Difficulty level: Easy

Expected Complexity:

> Time: O(log(mn))

> Extra space: O(1)

Question 2:

Problem link: https://practice.geeksforgeeks.org/problems/sorted-matrix2333/1

Difficulty level: Easy

Expected Complexity:

 \rightarrow Time: O(N²LogN)

 \triangleright Extra space: O(N²)

Question 3:

Problem link: https://practice.geeksforgeeks.org/problems/multiply-matrices/1

Difficulty level: Easy

Expected Complexity:

 \rightarrow Time: O(N³)

 \triangleright Extra space: O(N²)



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Question 4:

❖ Problem link:

https://practice.geeksforgeeks.org/problems/print-matrix-in-snake-pattern-158711 5621/1

Difficulty level: Easy

❖ Expected Complexity:

 \rightarrow Time: O(N²)

 \triangleright Extra space: O(N²)

Question 5:

Problem link:

https://practice.geeksforgeeks.org/problems/spirally-traversing-a-matrix-1587115 621/1

Difficulty level: Medium

Expected Complexity:

➤ Time: O(nm)

> Extra space: O(nm)

Question 6:

Problem link: https://leetcode.com/problems/rotate-image/

Difficulty level: MediumExpected Complexity:

 \rightarrow Time: O(N²)

> Extra space: O(1)



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Question 7:

Problemlink: https://practice.geeksforgeeks.org/problems/kth-element-in-matrix/

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Difficulty level: Medium

Expected Complexity:

Time: O(nlogn)Extra space: O(n)

Question 8:

Problem link:

https://practice.geeksforgeeks.org/problems/max-sum-submatrix2725/1

Difficulty level: Hard

Expected Complexity:

➤ Time: O(Q*N*M)

➤ Extra space: O(N*M)

Question 9:

Problem link: https://leetcode.com/problems/minimum-path-sum/

Difficulty level: Hard

Expected Complexity:

 \rightarrow Time: O(N²)

 \triangleright Extra space: O(N²)

Note: The solutions of all these questions will be provided on 25th May, 2021