Contest

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# 5663. Find Kth Largest XOR Coordinate Value

My Submissions (/contest/weekly-contest-225/problems/find-kth-largest-xor-coordinate-value/submissions/) Back to Contest (/contest/weekly-contest-225/) You are given a 2D matrix of size m  $\, x \, n$ , consisting of non-negative integers. You are also given an integer  $\, k \, .$ User Accepted: 0 The value of coordinate (a, b) of the matrix is the XOR of all matrix [i][j] where 0 <= i <= a < m and 0 <= j <= a < mUser Tried: 0 b < n (0-indexed).Find the  $k^{th}$  largest value (1-indexed) of all the coordinates of matrix. Total Accepted: 0 **Total Submissions:** 0 Example 1: Difficulty: Medium

**Input:** matrix = [[5,2],[1,6]], k = 1 Explanation: The value of coordinate (0,1) is 5 XOR 2 = 7, which is the largest value.

### Example 2:

**Input:** matrix = [[5,2],[1,6]], k = 2 Output: 5 **Explanation:** The value of coordinate (0,0) is 5 = 5, which is the 2nd largest value.

## Example 3:

**Input:** matrix = [[5,2],[1,6]], k = 3 Output: 4 **Explanation:** The value of coordinate (1,0) is 5 XOR 1 = 4, which is the 3rd largest value.

#### Example 4:

**Input:** matrix = [[5,2],[1,6]], k = 4 Output: 0 Explanation: The value of coordinate (1,1) is 5 XOR 2 XOR 1 XOR 6 = 0, which is the 4th largest value.

## Constraints:

• m == matrix.length • n == matrix[i].length • 1 <= m, n <= 1000 • 0 <= matrix[i][j] <= 10<sup>6</sup>

• 1 <= k <= m \* n

JavaScript d c 1 • /\*\* \* @param {number[][]} matrix 2 3 \* @param {number} k 4 \* @return {number} 5 6 var kthLargestValue = function(matrix, k) { 8 };