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# Maximum no of 1's row

Easy Accuracy: 53.13% Submissions: 30K+ Points: 2



Given a boolean 2D array, where each row is sorted. Find the row with the maximum number of 1s.

**Example 1:**

**Input:**
N = 3, M = 4
Mat[] = {{0 1 1 1},
{0 0 1 1},
{0 0 1 1}}
**Output:** 0
**Explanation**: Row 0 has 3 ones whereas rows 1 and 2 have just 2 ones.

C++ (g++ 5.4) | Start Timer

```
// } Driver Code Ends
class Solution
{
    public:
        int maxOnes (vector <vector <int>> &mat, int N, int M)
        {
            // your code here
            int row = 0 , col =  M-1 , res = 0;
            while((row <  N ) && ( col >= 0)){
                if(mat[row][col] == 0){
                    row++;
                }else{
                    col--;
                    res = row;
                }
            }
            return res;
        }
};
// } Driver Code Ends
```

Custom Input | Compile & Run | Submit

# 378. Kth Smallest Element in a Sorted Matrix

Medium 8.7K 306

Companies

Given an `n x n` `matrix` where each of the rows and columns is sorted in ascending order, return *the* `k^th` *smallest element in the matrix.*

Note that it is the `k^th` smallest element **in the sorted order**, not the `k^th` **distinct** element.

You must find a solution with a memory complexity better than `O(n^2)`.

**Example 1:**

```
Input: matrix = [[1,5,9],[10,11,13],[12,13,15]], k = 8
Output: 13
Explanation: The elements in the matrix are [1,5,9,10,11,12,13,13,15],
and the 8th smallest number is 13
```

**Example 2:**

```
Input: matrix = [[-5]], k = 1
Output: -5
```

C++ Auto

```cpp
class Solution {
public:
    int kthSmallest(vector<vector<int>>& matrix, int k) {
        int n =  matrix.size();
        int m = matrix[0].size();
        priority_queue<int> pq;

        for(int i = 0; i< n; i++){
            for(int j = 0; j< m; j++){
                pq.push(matrix[i][j]);

                if(pq.size() > k)
                    pq.pop();
            }
        }

        return pq.top();
    }
};
```

Console Run Submit