**378. Kth Smallest Element in a Sorted Matrix**

Medium

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Given an n x n matrix where each of the rows and columns are sorted in ascending order, return *the* kth *smallest element in the matrix*.

Note that it is the kth smallest element **in the sorted order**, not the kth **distinct** element.

**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

**Constraints:**

* n == matrix.length
* n == matrix[i].length
* 1 <= n <= 300
* -109 <= matrix[i][j] <= -109
* All the rows and columns of matrix are **guaranteed** to be sorted in **non-degreasing order**.
* 1 <= k <= n2

Accepted

244,001

Submissions

434,417