**240. Search a 2D Matrix II**

Medium

423086Add to ListShare

Write an efficient algorithm that searches for a target value in an m x n integer matrix. The matrix has the following properties:

* Integers in each row are sorted in ascending from left to right.
* Integers in each column are sorted in ascending from top to bottom.

**Example 1:**



**Input:** matrix = [[1,4,7,11,15],[2,5,8,12,19],[3,6,9,16,22],[10,13,14,17,24],[18,21,23,26,30]], target = 5

**Output:** true

**Example 2:**



**Input:** matrix = [[1,4,7,11,15],[2,5,8,12,19],[3,6,9,16,22],[10,13,14,17,24],[18,21,23,26,30]], target = 20

**Output:** false

**Constraints:**

* m == matrix.length
* n == matrix[i].length
* 1 <= n, m <= 300
* -109 <= matix[i][j] <= 109
* All the integers in each row are **sorted** in ascending order.
* All the integers in each column are **sorted** in ascending order.
* -109 <= target <= 109

Accepted

404,913

Submissions

909,436