240. Search a 2D Matrix II

Medium 8840 147 Add to List Share

Write an efficient algorithm that searches for a value `target` in an `m x n` integer matrix `matrix`. This 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:

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

```
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:

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

```
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`
- -10^9 `<= matrix[i][j] <=` 10^9
- All the integers in each row are **sorted** in ascending order.
- All the integers in each column are **sorted** in ascending order.
- -10^9 `<= target <=` 10^9

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```java
class Solution {
    public boolean searchMatrix(int[][] matrix, int target) {

    }
}
```