**28. Search a 2D Matrix**

中文

English

Write an efficient algorithm that searches for a value in an *m* x *n* matrix.

This matrix has the following properties:

* Integers in each row are sorted from left to right.
* The first integer of each row is greater than the last integer of the previous row.

**Example**

Example 1:

Input: [[5]],2

Output: false

Explanation:

false if not included.

Example 2:

Input: [

[1, 3, 5, 7],

[10, 11, 16, 20],

[23, 30, 34, 50]

],3

Output: true

Explanation:

return true if included.

**Challenge**

O(log(n) + log(m)) time