Problem statement Send feedback

You have been given a 2-D array 'mat' of size 'M x N' where 'M' and 'N' denote the number of rows and columns, respectively. The elements of each row are sorted in non-decreasing order.

Moreover, the first element of a row is greater than the last element of the previous row (if it exists).

You are given an integer 'target', and your task is to find if it exists in the given 'mat' or not.

Example:

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Input: 'M' = 3, 'N' = 4, 'mat' = [[1, 2, 3, 4], [5, 6, 7, 8], [9, 10, 11, 12]], 'target' = 8
Output: true
Explanation: The output should be true as '8' exists in the matrix.
```

Detailed explanation (Input/output format, Notes, Images)

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Sample Input 1:
3 4 8
1 2 3 4
5 6 7 8
9 10 11 12
Sample Output 1:
true
Explanation For Sample Input 1:
The 'target' = 8 exists in the 'mat' at index (1, 3).
Sample Input 2:
3 3 78
1 2 4
6 7 8
9 10 34
Sample Output 2:
false
Explanation For Sample Input 2:
The 'target' = 78 does not exist in the 'mat'. Therefore in the output, we see 'false'.
Constraints:
1 <= N <= 50
1 <= M <= 50
-10^5 <= mat[i], target <= 10^5
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Time Limit: 1 sec