

74. Search a 2D Matrix

Medium 2137 165 Add to List Share

Write an efficient algorithm that searches for a value in an $m \times n$ 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 1:

Input:
matrix = [
 [1, 3, 5, 7],
 [10, 11, 16, 20],
 [23, 30, 34, 50]
]
target = 3
Output: true

Example 2:

Input:
matrix = [
 [1, 3, 5, 7],
 [10, 11, 16, 20],
 [23, 30, 34, 50]
]
target = 13
Output: false

```
1 class Solution {  
2     public boolean searchMatrix(int[][] arr2d, int target) {  
3         for (int i = 0; i < arr2d.length; i++) {  
4             for (int j = 0; j < arr2d[i].length; j++) {  
5                 if (arr2d[i][j] == target)  
6                     return true;  
7             }  
8         }  
9         return false;  
10    }  
11 }  
12 }
```

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