Unknown Title

Description

Description

Note

Note

Editorial

Editorial

Solutions

Solutions

Submissions

Submissions

Code

Code

Testcase

Testcase

Test Result

Test Result

Leet

Leet

54. Spiral Matrix

Medium

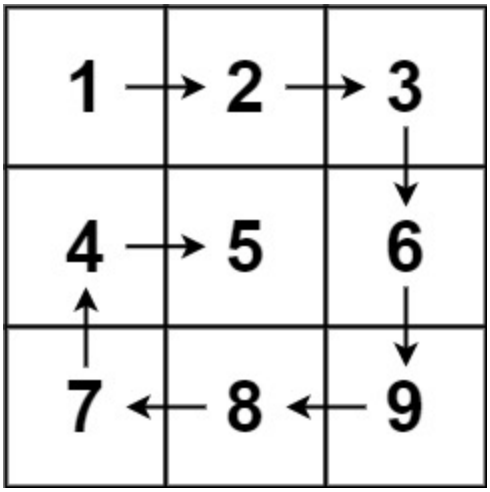
Topics

Companies

Hint

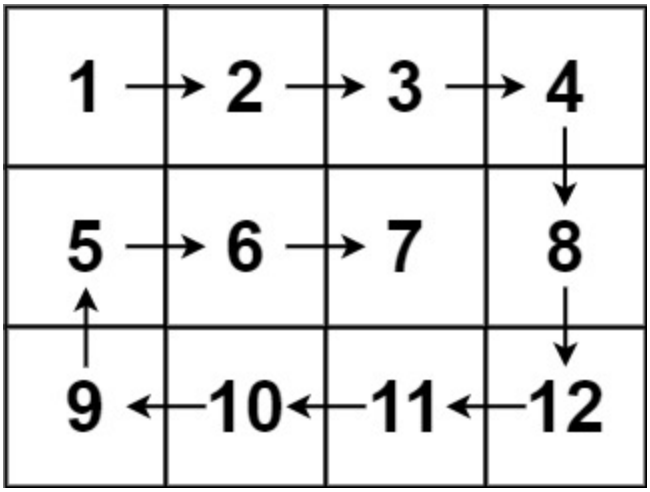
Given an `m x n` `matrix`, return *all elements of the* `matrix` *in spiral order*.

Example 1:



Input: matrix = [[1,2,3],[4,5,6],[7,8,9]]
Output: [1,2,3,6,9,8,7,4,5]

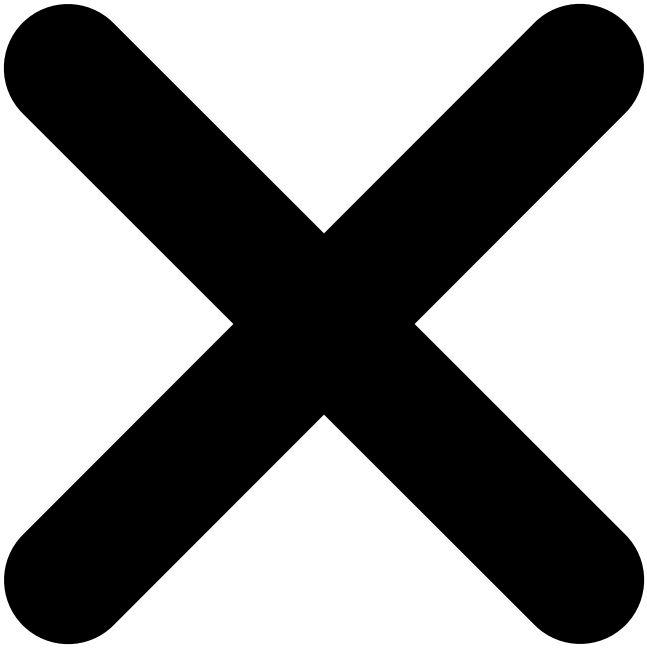
Example 2:



Input: matrix = [[1,2,3,4],[5,6,7,8],[9,10,11,12]]
Output: [1,2,3,4,8,12,11,10,9,5,6,7]

Constraints:

- m == matrix.length
- n == matrix[i].length
- 1 <= m, n <= 10
- -100 <= matrix[i][j] <= 100



Seen this question in a real interview before?

1/5

Yes

No

Accepted

2,173,540/3.9M

Acceptance Rate

55.4%

Topics

ArrayMatrixSimulation

Companies

Hint 1

Well for some problems, the best way really is to come up with some algorithms for simulation. Basically, you need to simulate what the problem asks us to do.

Hint 2

We go boundary by boundary and move inwards. That is the essential operation. First row, last column, last row, first column, and then we move inwards by 1 and repeat. That's all. That is all the simulation that we need.

Hint 3

Think about when you want to switch the progress on one of the indexes. If you progress on i out of [i, j], you'll shift in the same column. Similarly, by changing values for j, you'd be shifting in the same row. Also, keep track of the end of a boundary so that you can move inwards and then keep repeating. It's always best to simulate edge cases like a single column or a single row to see if anything breaks or not.

Discussion (297)

💡 Discussion Rules

×

1. Please don't post **any solutions** in this discussion.

2. The problem discussion is for asking questions about the problem or for sharing tips - anything except for solutions.

3. If you'd like to share your solution for feedback and ideas, please head to the solutions tab and post it there.

deleted_user

Aug 28, 2024

fucking frustrating problem.
i hate matrix.

Read more

⇧

23

⇩
↶

Reply

Anuj4999

Feb 10, 2024

When interviewer don't want to pass you an interview.....

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⇧

27

⇩
↶

Reply

AnywaySo

May 08, 2023

This is a very classic problem, which is not easy to write well and requires handling various boundary conditions. I have seen many solutions, and from these solutions, I can see the level of programming proficiency. Some solutions are concise and clear, while others are complex and disgusting.

Read more

27

Show 3 Replies

Reply

Keshav kumar

Jul 04, 2024

after thinking 4 hrs I solved in 0 ms and save my self confidence

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17

Reply

Kirill_Salnikov

May 19, 2024

Thanks to hint 1 I completely understood what I need to do in this problem, and in life. Thanks, leetcode

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11

Show 1 Replies

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PentaMa

Apr 03, 2023

Not a difficult problem, but super annoying to debug

Read more

11

Reply

OldPanda

Aug 09, 2014

I tested my code on my own machine and it works fine. However, after submitting my code to leetcode, the result always says Runtime Error without any details. I don't know why this happens.

Read more

49

Show 4 Replies

Reply

Raj

Jul 29, 2024

As of my knowledge, there's only one solution which came to my mind i.e. take four pointers left, right, top, bottom iterate from left to right then from right to bottom then from bottom to left then finally from bottom to left. repeat this step till your left, right pointers and top, bottom pointers become equals.
Ty!

Read more

10

Show 1 Replies

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Amritanshu

Jul 17, 2024

if you get this ques in an interview they don't want to take you

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10

Show 2 Replies

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kausachan

May 09, 2023

logical thinking: left the chat

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8

Reply

148 Online

1

2

3

4

5

class Solution {

```
    public List<Integer> spiralOrder(int[][] matrix) {



    }
}
```

Saved

Ln 1, Col 1

You must run your code first

😎

Stuck? Leet guides you through every line.

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FindHeaderBarSize

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