

## 54. Spiral Matrix

Solved

Medium

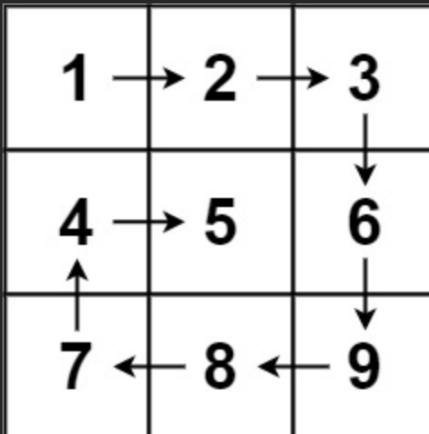
Topics

Companies

Hint

Given an  $m \times n$  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]

13.9K 88

Code

```
class Solution {
    func spiralOrder(_ matrix: [[Int]]) -> [Int] {
        var left = 0
        var right = matrix[0].count
        var top = 0
        var bottom = matrix.count
        var ans:[Int] = []

        while(left<right && top<bottom) {
            // Left Print
            for i in (left..
```

```

        // Right column print
        for i in (top..<bottom) {
            ans.append(matrix[i][right-1])
        }
        right = right - 1

        if(!(left<right && top<bottom)) {
            break
        }

        // print last row
        for i in stride(from: right - 1, through: left,
by: -1) {
            ans.append(matrix[bottom-1][i])
        }
        bottom = bottom - 1

        // print left most row
        for i in stride(from: bottom - 1, through: top, by:
-1) {
            ans.append(matrix[i][left])
        }

        left = left + 1
    }

    return ans
}
}

```