Spiral Matrix

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Question | Solution

Total Accepted: **40225** Total Submissions: **193264** Difficulty: **Medium**

Given a matrix of *m* x *n* elements (*m* rows, *n* columns), return all elements of the matrix in spiral order.

For example,

Given the following matrix:

```
[
 [ 1, 2, 3 ],
 [ 4, 5, 6 ],
 [ 7, 8, 9 ]
]
```

You should return `[1,2,3,6,9,8,7,4,5]`.

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Python

```
1  class Solution(object):
2      def spiralOrder(self, matrix):
3          """
4          :type matrix: List[List[int]]
5          :rtype: List[int]
6          """
7          res = []
8          if len(matrix)==0 or len(matrix[0])==0:return res
9          x=0;y=-1;xmin=0;xmax=len(matrix)-1;ymin=0;ymax=len(matrix[0])-1
10         while True:
11             while y+1 <= ymax:
12                 y+=1
13                 res.append(matrix[x][y])
14             xmin+=1
15             if xmin > xmax:break
16             while x+1 <= xmax:
17                 x+=1
18                 res.append(matrix[x][y])
```

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```
19              ymax-=1
20              if ymax < ymin:break
21              while y-1 >= ymin:
22                  y-=1
23                  res.append(matrix[x][y])
24              xmax-=1
25              if xmax < xmin:break
26              while x-1 >= xmin:
27                  x-=1
28                  res.append(matrix[x][y])
29              ymin+=1
30              if ymin > ymax:break
```

Custom Testcase

Run Code | Submit Solution

Submission Result: Accepted (/submissions/detail/40300602/)

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Next challenges: (M) Spiral Matrix II (/problems/spiral-matrix-ii/)

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