Spiral Matrix II

| Question | Solution |

Total Accepted:

36988   Total Submissions: **115114**   Difficulty: **Medium**

Given an integer *n*, generate a square matrix filled with elements from 1 to n^2 in spiral order.

For example,

Given *n* = `3`,

You should return the following matrix:

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

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Python ▼

```python
class Solution(object):
    def generateMatrix(self, n):
        """
        :type n: int
        :rtype: List[List[int]]
        """
        returnColumn = [[0 for i in range(n)] for j in range(n)]
        i=0;x=0;y=-1;xmin=0;xmax=n-1;ymin=0;ymax=n-1
        while True:
            while y+1 <= ymax:y+=1;i+=1;returnColumn[x][y] = i
            xmin+=1
            if xmin > xmax:break
            while x+1 <= xmax:x+=1;i+=1;returnColumn[x][y] = i
            ymax-=1
            if ymax < ymin:break
            while y-1 >= ymin:y-=1;i+=1;returnColumn[x][y] = i
            xmax-=1
```

```python
            while x-1 >= xmin:x-=1;i+=1;returnColumn[x][y] = i
```

```
20                ymin+=1
21            if ymin > ymax:break
22        return returnColumn
```

Custom Testcase ☐

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