59. Spiral Matrix II

题目描述: https://leetcode.com/problems/spiral-matrix-ii/

```
给定一个整数n,将[1-n*n]个数,按照螺旋的顺序填入n*n的二维数组内例如:给定 n = 3

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

解题思路:

4个for

代码:

```
class Solution {
public:
    vector<vector<int>> generateMatrix(int n) {
        vector<vector<int> > res(n, vector<int>(n));
        int s = n*n, k = 1;
        int l = -1, r = n-1, u = 0, b = n-1;
        while(k \le s){
            for(int i = ++1; i \le r \&\& k \le s; i++){
                res[u][i] = k++;
            for(int i = ++u; i \le b \&\& k \le s; i++){
                res[i][r] = k++;
            for(int i = --r; i >= 1 && k <= s; i--){
                res[b][i] = k++;
            for(int i = --b; i >= u && k <= s; i--){}
                res[i][l] = k++;
        return res;
    }
};
```