题目： 1314. 矩阵区域和

> 经典二维前缀和，先求出二维前缀和，根据二维前缀和求解对应大小的前缀和，注意下标映射关系

```cpp
class Solution {
public:
    vector<vector<int>> matrixBlockSum(vector<vector<int>>& mat, int k) {
        // 二维前缀和 下标映射关系
        // 计算出合适的范围
        int m = mat.size();
        int n = mat[0].size();
        vector<vector<int>> dp(m + 1, vector<int>(n + 1));
        for (int i = 1; i <= m; i++) {
            for (int j = 1; j <= n; j++) {
                dp[i][j] = dp[i - 1][j] + dp[i][j - 1] - dp[i - 1][j - 1] +
                           mat[i - 1][j - 1];
            }
        }
        vector<vector<int>> answer(m,vector<int>(n));
        for (int i = 0; i < m; i++) {
            for (int j = 0; j < n; j++) {
                int x1, y1, x2, y2;
                x1 = max(i - k, 0) + 1;
                y1 = max(j - k, 0) + 1;
                x2 = min(i + k,m-1) + 1;
                y2 = min(j + k, n-1) + 1;
                answer[i][j] = dp[x2][y2] - dp[x2][y1 - 1] - dp[x1 - 1][y2] +
                               dp[x1 - 1][y1 - 1];
            }
        }
        return answer;
    }
};
```