/\*

Given a m x n grid filled with non-negative numbers, find a path from top left to bottom right which minimizes the sum of all numbers along its path.

Note: You can only move either down or right at any point in time.

明显动态规划

\*/

class Solution {

public:

int minPathSum(vector<vector<int>>& grid)

{

int row=grid.size();

int col=grid[0].size();

for(int i=1;i<row;i++)

grid[i][0]+=grid[i-1][0];

for(int i=1;i<col;i++)

grid[0][i]+=grid[0][i-1];

for(int i=1;i<row;i++)

{

for(int j=1;j<col;j++)

{

grid[i][j]+=min(grid[i][j-1],grid[i-1][j]);

}

}

return grid[row-1][col-1];

}

};