Minimum Path Sum

Question: 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.

Solutions:

```
class Solution:
  # @param grid, a list of lists of integers
  # @return an integer
  def minPathSum(self, grid):
    if len(grid)==0 or len(grid[0])==0:
       return 0
    for row in range(0, len(grid)):
       for col in range(0, len(grid[0])):
         if row>0 and col>0:
           grid[row][col] += min(grid[row-1][col],grid[row][col-1])
         elif row>0:
           grid[row][col] += grid[row-1][col]
         elif col>0:
           grid[row][col] += grid[row][col-1]
     return grid[len(grid)-1][len(grid[0])-1]
grid = [[1,2,3],
    [4,5,6],
    [7,8,9],
    [10,11,12]]
Solution().minPathSum(grid)
```