class Solution(object):

def minPathSum(self, grid):

if len(grid) == 0:

return 0

else:

n = len(grid)

m = len(grid[0])

temp = 0

res = [[0 for i in range(0, m)] for j in range(0,n)]

for i in range(0, m):

temp += grid[0][i]

res[0][i] = temp

temp = 0

for i in range(0, n):

temp += grid[i][0]

res[i][0] = temp

for i in range(1,n):

for j in range(1, m):

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

return res[n-1][m-1]