Minimum Path Sum

class Solution:

def minPathSum(self, grid: List[List[int]]) -> int:

m = len(grid)

n = len(grid[0])

dp = [[0]\*m for \_ in range(n)]

# First calculate sum of first row

cur\_sum = grid[0][0]

for i in range(1,n):

grid[0][i] = grid[0][i] + cur\_sum

cur\_sum = grid[0][i]

# Calculate sum of first column

cur\_sum = grid[0][0]

for i in range(1,m):

grid[i][0] = grid[i][0] + cur\_sum

cur\_sum = grid[i][0]

#calculate for rest

for i in range(1,m):

for j in range(1,n):

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

return grid[-1][-1]