main:

mat = { {1,2,3,4},
        {5,6,7,8},
        {9,10,11,12}}
        ↓

func1 (mat, 3,4)
mat[2][3]=func1 (mat, 2,4)
        return func2 (mat[2],4)

return (3+15+11+1)
return 64

mat [2][3] = 5+6+7+8 =31

func1 (mat, 2, 4)
mat[1][3] = func1 (mat, 1,4)
        return func2 (mat[1],4)

mat[1][3] = 4+3+5+4 = 15

func1 (mat,1,4)
mat[0][3] = func1(mat, 0,4)
        func2 (mat[0],4)

mat[0][3] = 1

func1 (mat, 0,4)
(return mat[0][3])

mat = { {1,2,3,4},
        {1,6,7,8},
        {3,15,11,12} }