



func1 is called repeatedly before finally returning mat[0][0] (1), which is returned to the last function call (func1(mat, 1, 4)). This sets mat[n-1][0] equal to the returned value 1. In other words, mat[0][0] = 1. Then func1(mat, 1, 4) continues and calls func2(mat[0], 4), which returns the sum of the integers in mat[0] (10). This is returned to func1(mat, 2, 4), which sets mat[1][0] = 10. func1(mat, 2, 4) continues and calls func2(mat[1], 4), which returns the sum of integers in mat[1] (31). This is returned to func1(mat, 3, 4), which sets mat[2][0] = 31. The new contents of mat is:

mat[0] = 1 2 3 4	mat[0][0] = still 1
mat[1] = 10 6 7 8	mat[1][0] changed to 10
mat[2] = 31 10 11 12	mat[2][0] changed to 31