

MANN

Start contents of "mat":

	0	1	2	3
0	1	2	3	4
1	5	6	7	8
2	9	10	11	12

func1(mat, 3, 4)

↓
mat[2][0] = func1(mat, 2, 4)
func2(mat[2], 4)
return 4

mat starts off with contents.
func1(mat, 3, 4) is called recursively then is returned 4. Though to contents of mat right after the call is seen down below (bottom left). As you can see, I've traced the recursive call to the left.

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

>Returns
3

↓
mat[0][0] = func1(mat, 0, 4)

↓
return 1

Returns
1

↓
mat[0][0] = 1
func2(mat[0], 4)
temp = 10
return 10

end contents of "mat"

1	2	3	4
10	4	7	8
31	10	11	12

- * mat[1][0] = 10
- * mat[0][0] = 1
- * mat[2][0] = 31