

$r1 = \{1, 2, 3, 4\}$   
 $r2 = \{5, 6, 7, 8\}$   
 $r3 = \{9, 10, 11, 12\}$

$mat = \{r1, r2, r3\}$

after

$3 > 0$ :  $func1(mat, 3, 4)$   
 $mat[2][0], r3[0]$ ; return:  $func2(r3, 4)$

$r3 = \{3, 10, 11, 12\}$

$2 > 0$ :  $func1(mat, 2, 4)$   
 $mat[1][0], r2[0]$ ; return:  $func2(r2, 4)$   
 $: 3$

$r2 = \{10, 6, 7, 8\}$

$1 > 0$ :  $func2(mat, 1, 4)$   
 $mat[0][0], r1[0]$ ; return:  $func2(r1, 4)$   
 $: 10$

no change in mat

$else$ :  $func1(mat, 0, 4)$   
 $return: mat[0][0], r1[0]$

①

final contents of mat:

$\{\{1, 2, 3, 4\}, \{10, 6, 7, 8\}, \{3, 10, 11, 12\}\}$

Func2 Pages

func2({1, 2, 3, 4}, 4)

4 > 0, temp = 0

temp = 1 + 2 + 3 + 4 = 10

return 10

func2({10, 6, 7, 8}, 4)

4 > 0, temp = 0

temp = 10 + 6 + 7 + 8 = 31

return 31

func3({31, 10, 11, 12})

return: 41 + 23 = 64