

$$A = \begin{bmatrix} 0 & 1 & 2 \\ 4 & -2 & 0 \\ 7 & 0 & 1 \end{bmatrix}$$

$$B = \begin{bmatrix} -2 & -1 & -3 \\ 0 & 5 & -2 \\ -3 & 5 & 8 \end{bmatrix}$$

$$\rightarrow C = A + B = \begin{bmatrix} -2 & 0 & -1 \\ 4 & 3 & -2 \\ 4 & 5 & 9 \end{bmatrix}$$

$$M = \begin{bmatrix} 00 & 01 & 02 \\ 10 & 11 & 12 \\ 20 & 21 & 22 \end{bmatrix}$$

n filas

m columnas

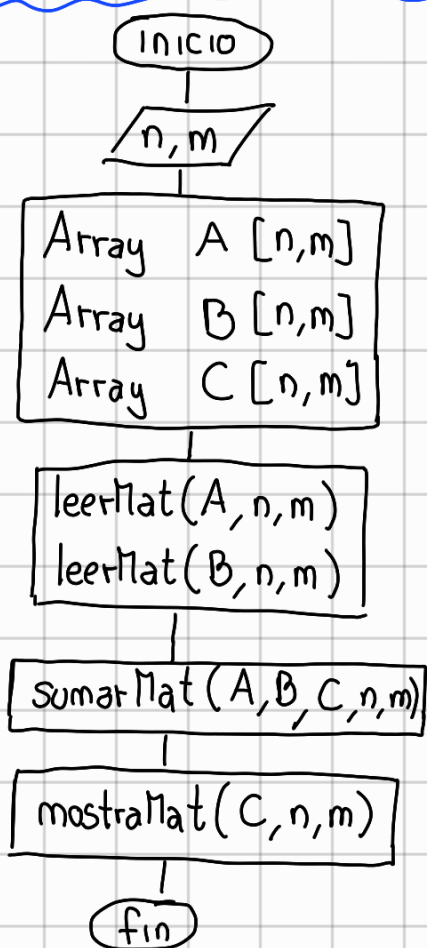
$$C[0][0] \leftarrow A[0][0] + B[0][0]$$

$$C[1][2] \leftarrow A[1][2] + B[1][2]$$

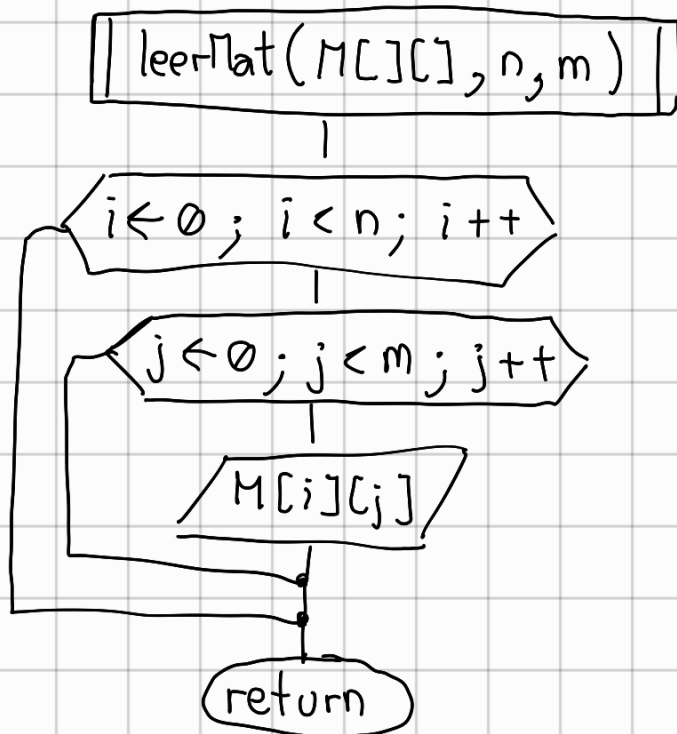
$$C[i][j] \leftarrow A[i][j] + B[i][j]$$

1. declarar Mat
2. leer Mat A, B
3. Sumar en C
4. Mostrar C

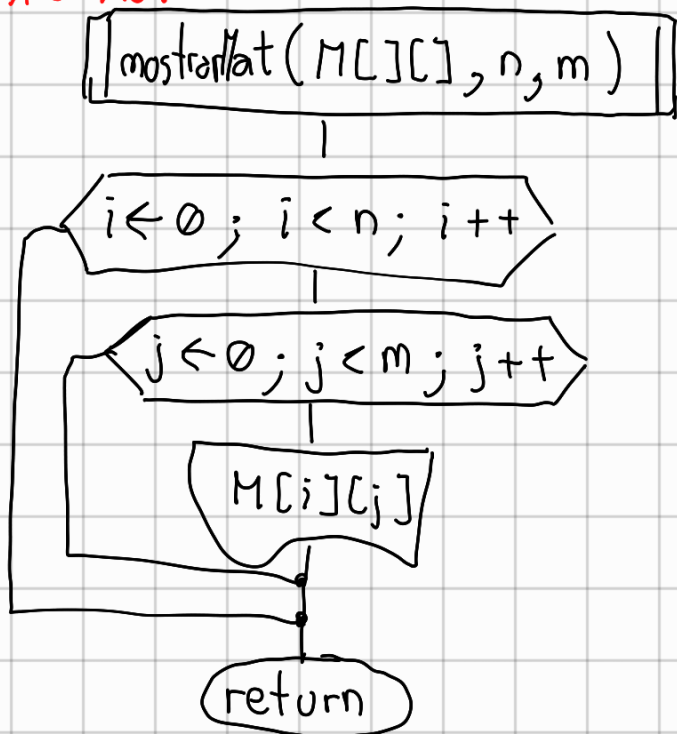
Main:



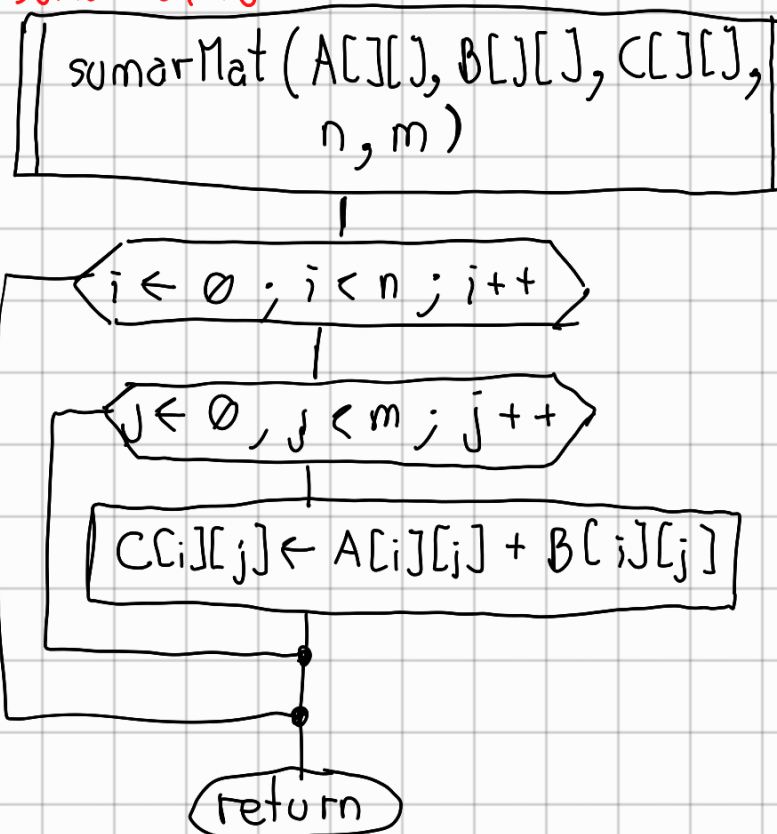
leerMat



Mostrar Mat



sumarMatriz



P.E:

n	m	i	j
2	2	0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		10	10
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		94	94
		95	95
		96	96
		97	97
		98	98
		99	99

$$\begin{bmatrix} 2 & 3 \\ 1 & -2 \end{bmatrix} \quad \begin{bmatrix} 1 & -1 \\ 0 & -1 \end{bmatrix}$$

	0	1
0	3	2
1	1	-3

ej: 2 Generar La Matriz

	0	1	2	3
0	1	3	4	10
1	2	5	9	11
2	6	8	22	15
3	7	13	14	16

	0	1	2	3
0	00	01	02	03
1	10	11	12	13
2	20	21	22	23
3	30	31	32	33

	0	1	2	3
0	00	01	02	03
1	10	11	12	
2	20	21		
3	30			

	0	1	2	3
0				
1				13
2			22	23
3		31	32	33

$i, j: i+1$
 $j-1$

$i-1$
 $j+1$

0	1	2	3
00	01	02	03
10	11	12	
20	21		
30			

0	1	2	3
1	3	4	10
2	5	9	13
6	8	22	23
7	31	32	33

sw = 0

i = 0

j = 0

a $0 \leq i < n$

b $0 \leq j < n$

sw 0: ✓ 1: ↗
for (i ← 0; i < n; i++) {
if (sw == 0) {

do {

m[i][j] = nro; nro++;
i++, j--

} while (0 ≤ i and i < n and 0 ≤ j and j < n

j++; sw = 1

} else {

while (no sesalga) {

m[i][j] = nro; nro++

i--; j++

}

i++; sw = 0

}

0	1	2	3
10			
11			
12			
13			

sw = 0

i = 1

j = 3

if (n % 2 == 0) {

i = 1; j = n - 1

} else {

i = n - 1; j = 1

}

for (k ← 0; k < n - 1; k++) {

if (sw == 0) {

while (no sesalga) {

asigno, nuevo

j = j + 2;

i = i - 1; sw = 1;

else {

while (no sesalga) {

asigno, nuevo

i = i + 2;

j = j - 1; sw = 0;

}