```
x = 4;
y = x + 2;
for (i=0; i<x; i++) {
 System.out.print(x+" "+y);
 y = y + i;
}
```

4,	6,6,7, 9,12,	0,1,2,3, 4,

x   **y**   **i**

Tela:

4 64 64 74 9

```
for (i=1; i<5; i++){
    y = i - 1;
    x = i * 10;
    System.out.print(i);
}
```

10,20, 30,40,	0,1,2, 3,	1,2,3, 4,5,

x   **y**   **i**

Tela:

1234

```
y = 10;
for (i=0; i<4; i++){
   System.out.print(i);
   y = y + i;
   System.out.println(y);
}
```

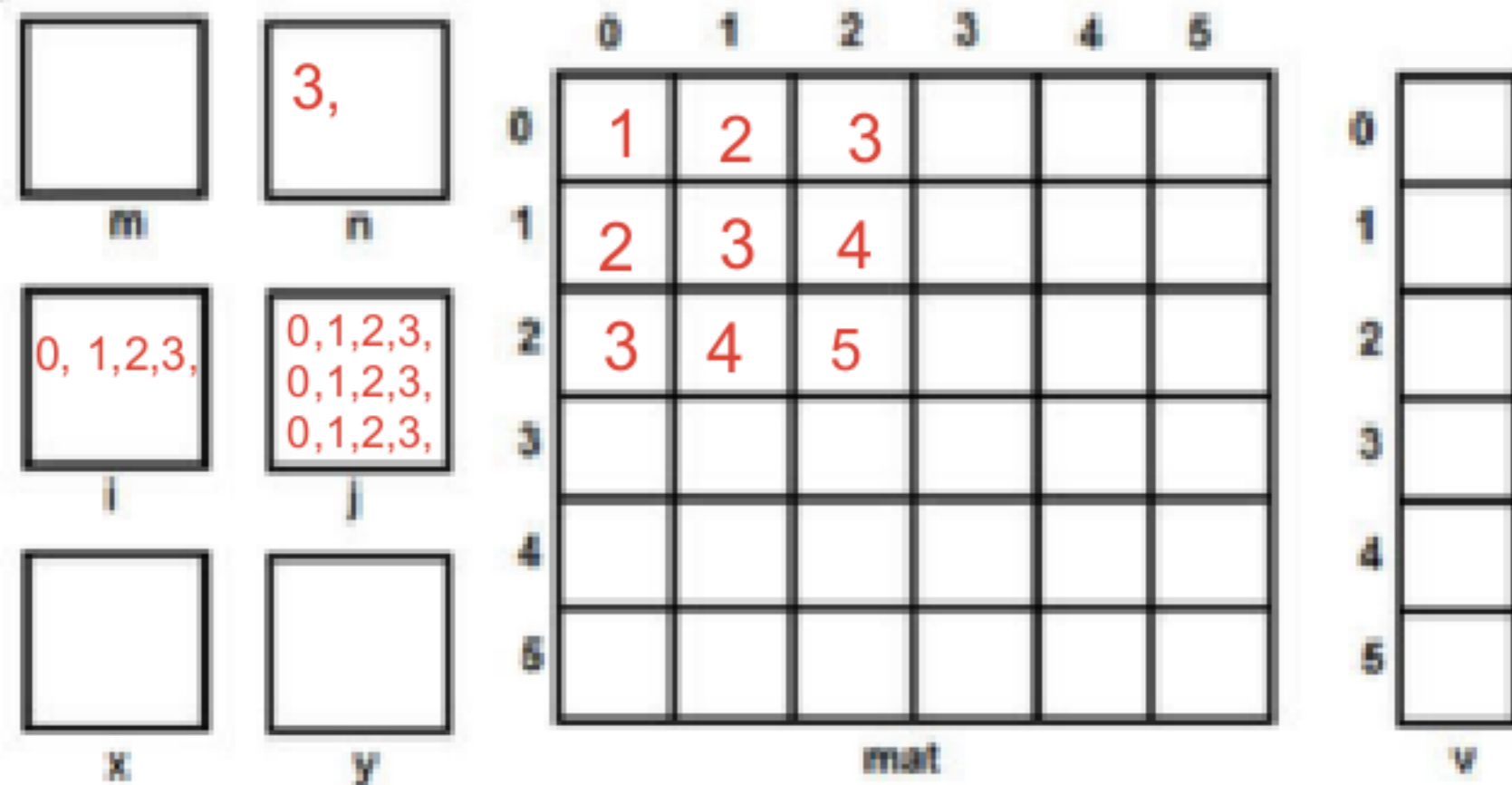|	10,10,1, 13,16,	0,1,2,3, 4,

x   **y**   **i**

Tela:

01011121316

```
n = 3;
for (i=0; i<n; i++) {
    for (j=0; j<n; j++) {
        mat[i][j] = 1 + i + j;
    }
}
```

```
m = 2;
n = 4;
x = 0;
for (i=0; i<m; i++) {
    x = x + i;
    for (j=0; j<n; j++) {
        x = x + j;
        mat[i][j] = x;
    }
}
```

Left panel

m = (empty)

n = 3,

i = 0, 1,2,3,

j = 0,1,2,3,
0,1,2,3,
0,1,2,3,

x = (empty)

y = (empty)

mat:

	0	1	2	3	4	5
0	1	2	3			
1	2	3	4			
2	3	4	5			
3						
4						
5						

v:

0
1
2
3
4
5

Right panel

m = 2,

n = 4,

i = 0,1,2

j = 0,1,2,3,
4,0,1,2,
3,4,

x = 0,0,0,1,
3,6,7,7,
8,10,13

y = (empty)

mat:

	0	1	2	3	4	5
0	0	1	3	6		
1	7	8	10	13		
2						
3						
4						
5						

v:

0
1
2
3
4
5
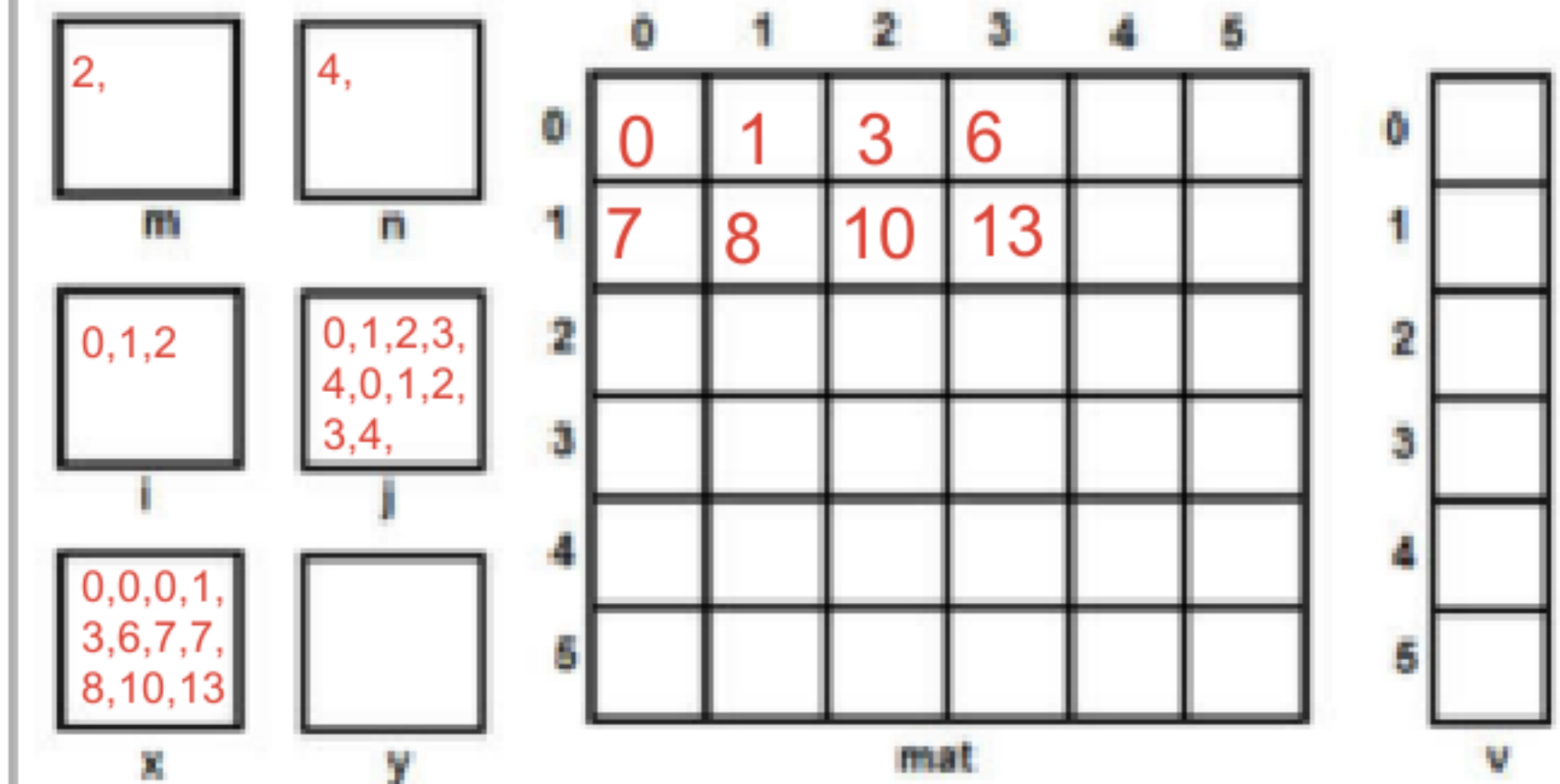
```
m = 5;
for (i=0; i<m; i++) {
    mat[3][i] = 10;
}
for (i=0; i<m; i++) {
    mat[i][4] = 10 * i;
    mat[i][i] = 50;
}
```
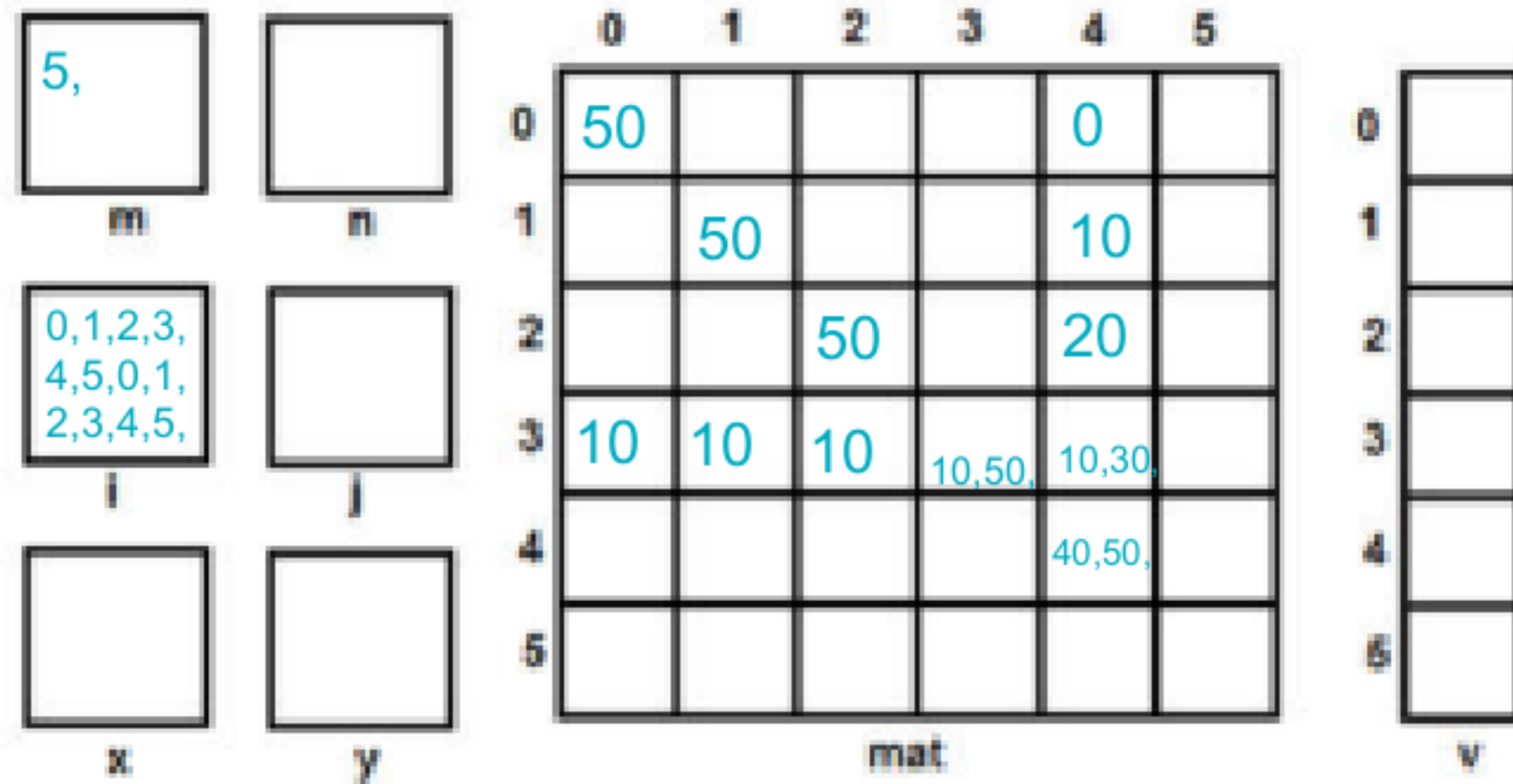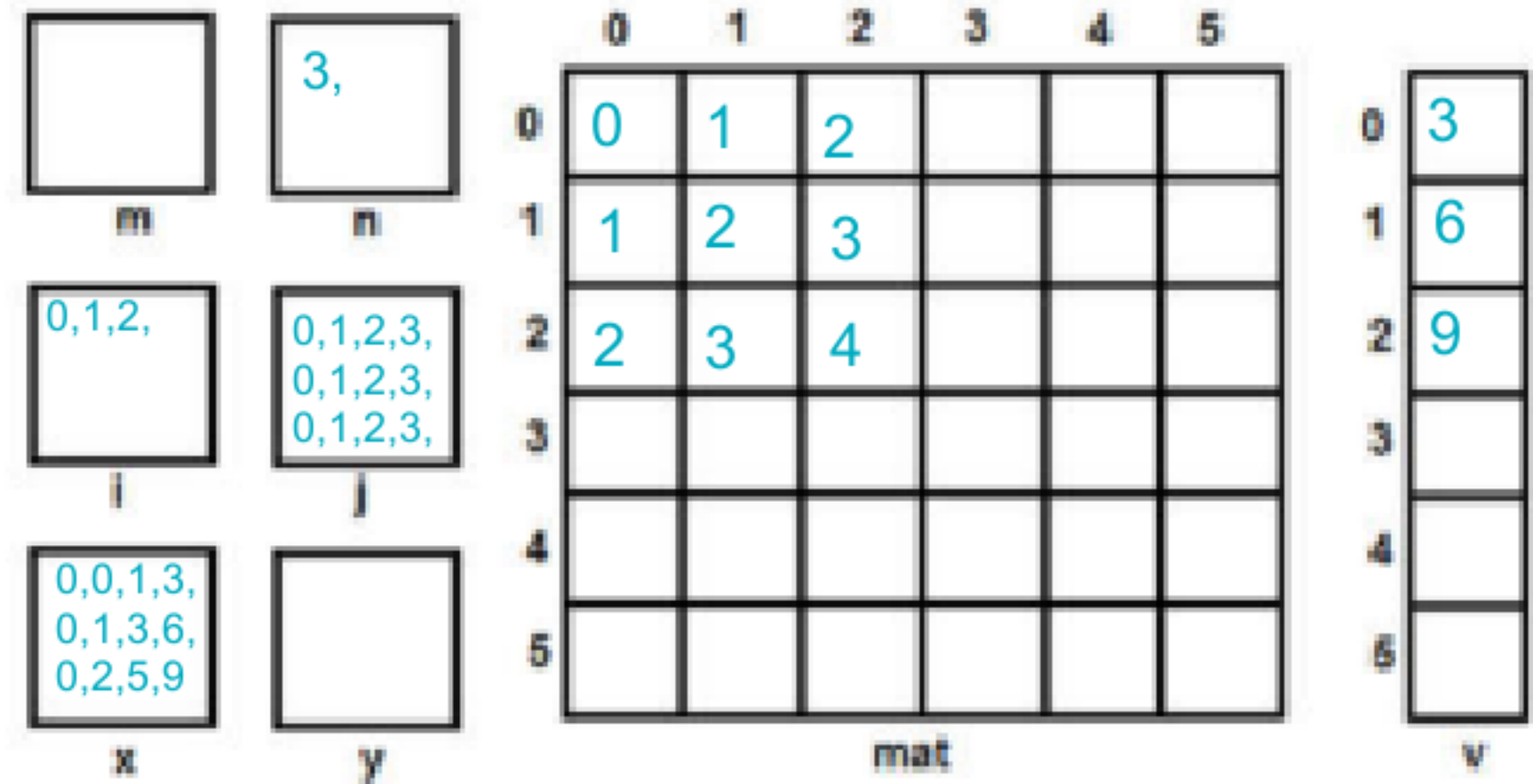
```
n = 3;
for (i=0; i<n; i++) {
    x = 0;
    for (j=0; j<n; j++) {
        mat[i][j] = i + j;
        x = x + mat[i][j];
    }
    v[i] = x;
}
```

Left panel

m = 5,

i = 0,1,2,3,4,5,0,1,2,3,4,5,

mat:

	0	1	2	3	4	5
0	50				0	
1		50			10	
2			50		20	
3	10	10	10	10,50,	10,30,	
4					40,50,	
5						

v:

0	
1	
2	
3	
4	
6	

Right panel

n = 3,

i = 0,1,2,

j = 0,1,2,3,0,1,2,3,0,1,2,3,

x = 0,0,1,3,0,1,3,6,0,2,5,9

mat:

	0	1	2	3	4	5
0	0	1	2			
1	1	2	3			
2	2	3	4			
3						
4						
5						

v:

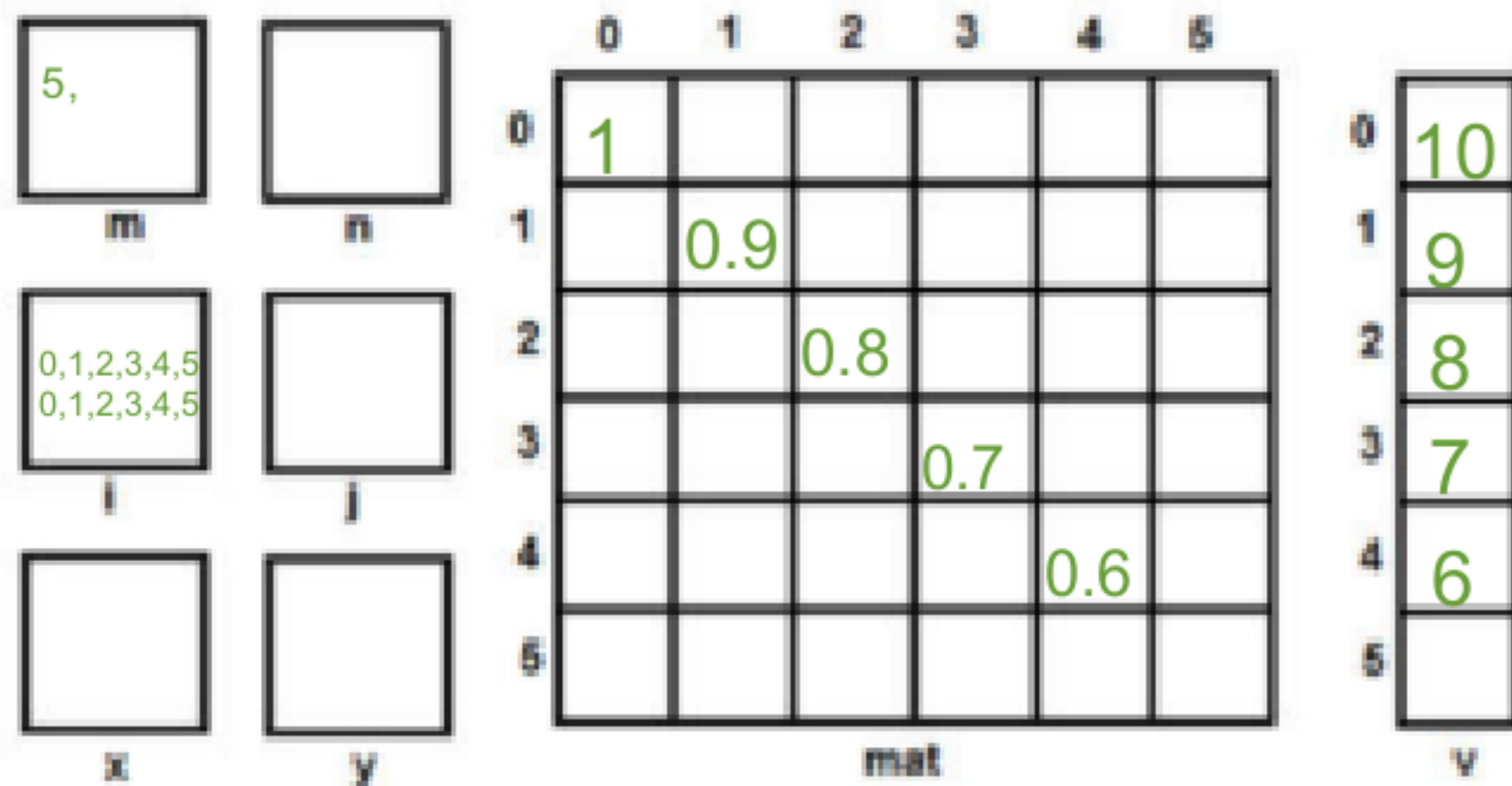|	
0	3
1	6
2	9
3	
4	
6	

```
m = 5;
for (i=0; i<m; i++) {
    v[i] = 10 - i;
}
for (i=0; i<m; i++) {
    mat[i][i] = v[i] / 10;
}
```

```
n = 4;
for (i=0; i<n; i++) {
    for (j=0; j<i; j++) {
        mat[i][j] = (i + 1) * 10;
    }
}
```

Left side variables:

- m: 5,
- n: (empty)
- i: 0,1,2,3,4,5 0,1,2,3,4,5
- j: (empty)
- x: (empty)
- y: (empty)

mat:

	0	1	2	3	4	5
0	1					
1		0.9				
2			0.8			
3				0.7		
4					0.6	
5						

v:

0	10
1	9
2	8
3	7
4	6
5	

Right side variables:

- m: (empty)
- n: 4,
- i: 0,1,2,3,4
- j: 0,1, 0,1,2, 0,1,2,3
- x: (empty)
- y: (empty)

mat:

	0	1	2	3	4	5
0						
1	20					
2	30	30				
3	40	40	40			
4						
5						

v:

0	
1	
2	
3	
4	
5	