EXAMPLE

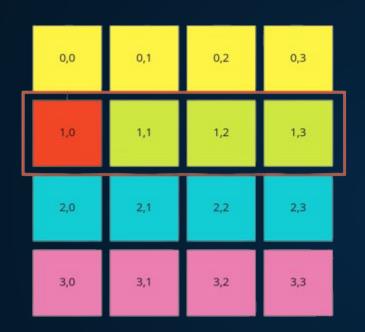
```
double A[MAX][MAX], x[MAX], y[MAX];
...
/* Initialize A and x, assign y = 0 */
...
/* First pair of loops */
for (i = 0; i < MAX; i++)
    for (j = 0; j < MAX; j++)
        y[i] += A[i][j]*x[j];
...
/* Assign y = 0 */
...
/* Second pair of loops */
for (j = 0; j < MAX; j++)
    for (i = 0; i < MAX; i++)
        y[i] += A[i][j]*x[j];</pre>
```

Matriz 4x4



CACHE MISS	0,3	0,2	0,1	0,0
	1,3	1,2	1,1	1,0
	2,3	2,2	2,1	2,0
	3,3	3,2	3,1	3,0
CACHE MISS	0,3	0,2	0,1	0,0
	1,3	1,2	1,1	1,0
	2,3	2,2	2,1	2,0
	3,3	3,2	3,1	3,0



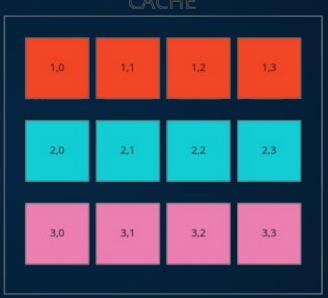


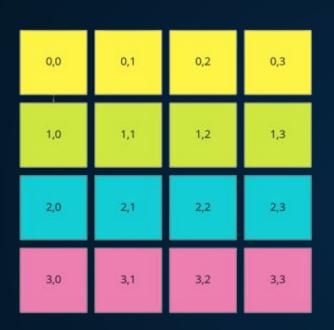




4 CACHE MISS



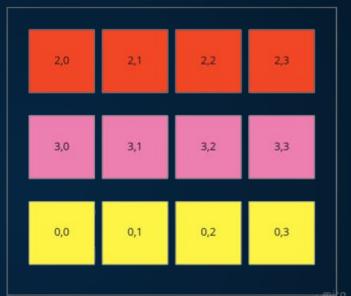




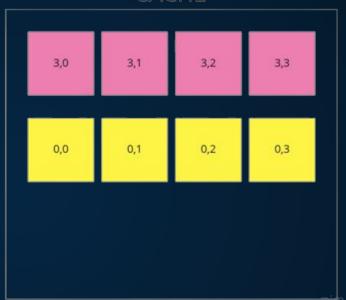


4 cache miss

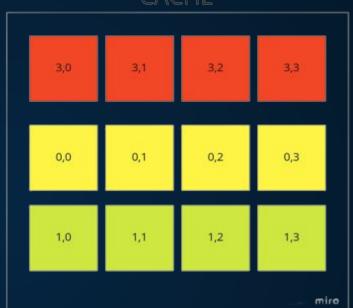
0,1 0,2 0,3 0,0 1,1 1,2 1,3 1,0 2,1 2,2 2,3 2,0 3,0 3,1 3,2 3,3



0,0 0,1 0,2 0,3 1,0 1,1 1,2 1,3 2,1 2,0 2,2 2,3 3,0 3,1 3,2 3,3

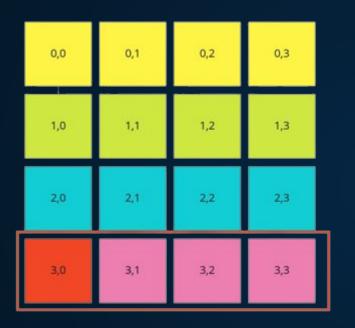


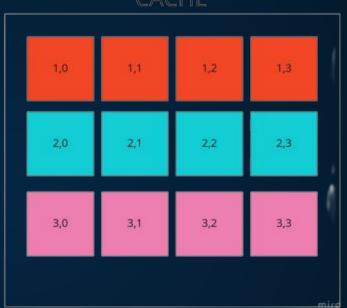




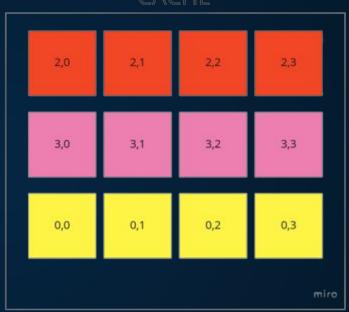
td

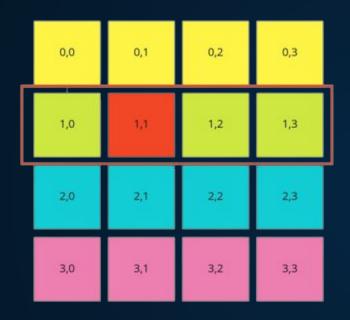


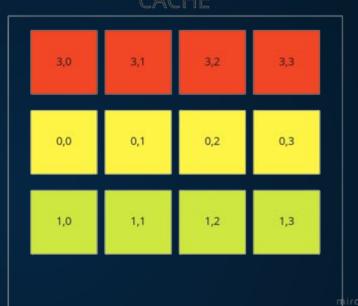




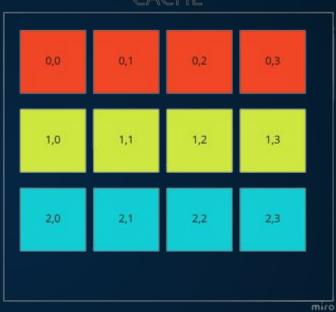


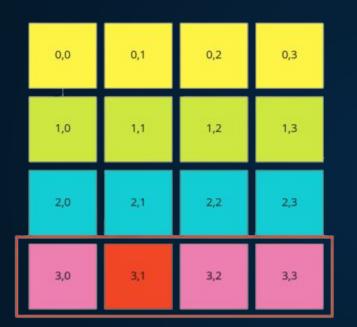


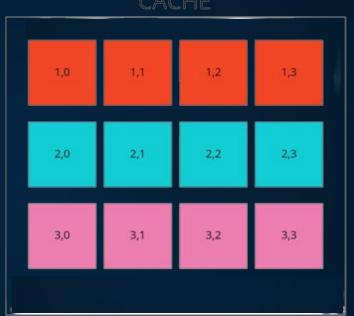


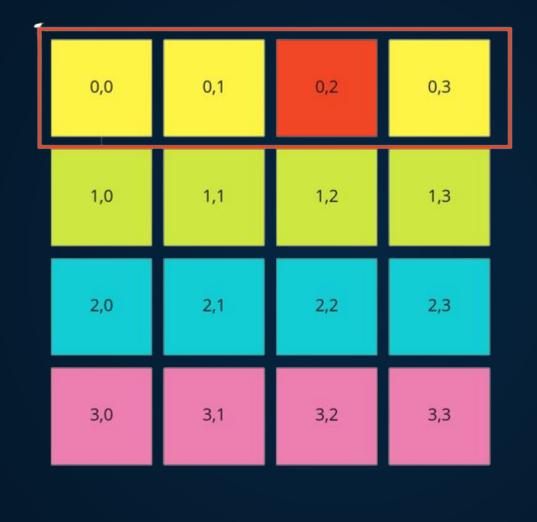


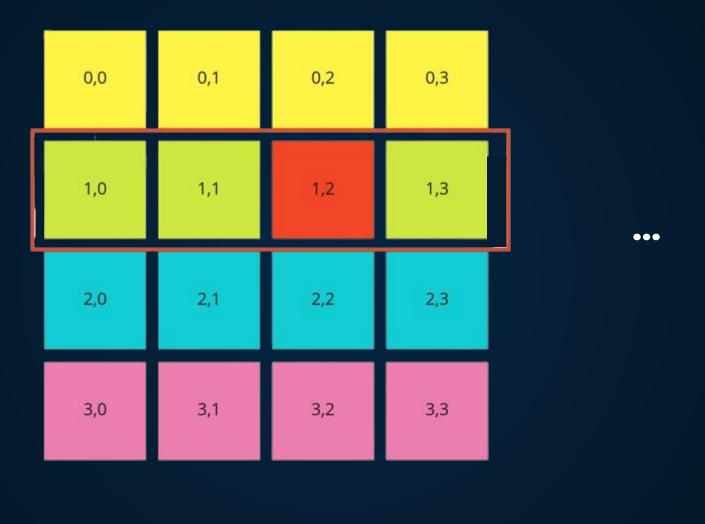


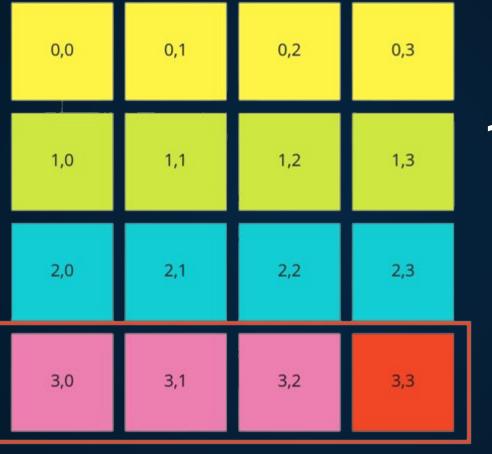












16 cache miss