TAKE $A = \begin{bmatrix} -5 & 2 & -1 \\ 1 & 0 & 3 \\ 3 & 1 & 6 \end{bmatrix}$

1. LARGEST ENTRY ON DIA?

```
A=([[-5., 2., -1.],
    [1., 0., 3.],
    [3., 1., 6.]])
```

```
≈ ([[A[0,0], A[0,1], ...],
    [A[1,0], A[1,1], ...], ...])
```

SCAN THROUGH ENTRIES
FIRST LOOK AT COL 1

FOR n IN RANGE(3)

IF A[n, ø] > A[n-1, ø]

A[n-1, ø] = A[n, ø]

A[n, ø] = A[n-1, 0]

2. SUB DIA ZERO?

FOR n IN RANGE(3)

IF ABS(A[n, 0]) > 1e-10

*(DETERMINE M_{ij} SUCH THAT $A_{ij} \neq ø \longrightarrow A_{ij} = ø$)