Es alula A=LU miljangant elim. jauss. seuse privotatpe:

els 0 en la posicion 1's j+2 donn multiplicadon 0, 0 steni "es conserver" en l En cada etapoa k=4+n-2 (except elúetima) mones es colculen 2 multiplicados is wodifiqueu 2 files: i=kH, kt2

En l'etapa k=n-1 (úlhina) nomé es calcula 1 multiplicador es matria l'úlhana fila (de fet, 1 element)

O Figui: (U serà "norme?": hiaup. supensir I L sera Many unferior and wer ala diagrach, and 0's quan i>1+2

(0 signi, mus 2 subdisprish no null

Ser many appears and any of the spin, many 2 substages

$$\begin{cases}
\forall k = k + n + 2 \\
Q_{ik} \leftarrow Q_{ik}/Q_{kk} \\
\forall j = k + 1 + n \\
Q_{ij} \leftarrow Q_{ij} - Q_{ik}Q_{kj}
\end{cases}$$

$$\begin{cases}
(1) \\
(2) \\
(3) \\
(4)
\end{cases}$$

$$\begin{cases}
(4) \\
(4)
\end{cases}$$

Operacion

$$(/): \left(\sum_{k=1}^{N-2} 2 \cdot 1\right) + 1 = 2(N-2) + 1 = \left[2N-3\right]$$

$$(*): \left(\sum_{k=1}^{N-2} 2 \cdot \sum_{j=k+1}^{N}\right) + 1 = \left(2\sum_{k=1}^{N-2} (N-k)\right) + 1 = 2\left[(N-1) + (N-2) + ... + 2\right] + 1 = \left[\frac{2}{N-N-1}\right]$$

$$(*): \left(\sum_{k=1}^{N-2} 2 \cdot \sum_{j=k+1}^{N}\right) + 1 = \left(2\sum_{k=1}^{N-1} (N-k)\right) + 1 = 2\left[(N-1) + (N-2) + ... + 2\right] + 1 = \left[\frac{2}{N-N-1}\right]$$

(b) L ké det 1 => 31-1 L'hamp vifer and who a la diag. => L'hambé. Figuri Xij els elements essencials Imposin Ll'=Id en el can n=6 1 0 X51 X52 X53 X51 1 964 965 1 / \ X61 X62 X63 X61 X67 Anem imposant igualist, dement a element, avançant per fils (per exemple) i aven aillant elements descrieçus en Fila1: No aporta res. funció d'elements conseguits. \overline{H} $a_{21} + x_{21} = 0$ = $x_{21} = -a_{21}$ (I) Fla 3: $a_{31} + a_{32} \times_{21} + \times_{31} = 0$ = $\left[\begin{array}{c} \times_{31} = -a_{31} - a_{52} \times_{21} \\ \times_{32} = -a_{32} \end{array}\right]$ (四) (工) (亚) X41 = - Q42×21 - Q43×31 Thay: a42 X21 + a43 X31+X41=0) auz + au3 x32 + xu2 = 0 } => | xu2 = -au2 - au3 x 32 (四) a43 + x43 = 0) X43 = - 943 (I)X57 = -013 X31 -954×41 953 X31+ 954 X41+ X51 =0) (亚) $973 \times 32 + 954 \times 42 + \times 52 = 0$ \Rightarrow $\times 62 = -953 \times 32 - 954 \times 42 \times 63 = 0$ \Rightarrow $\times 63 = -953 \times 32 - 954 \times 43 \times 63 = 0$ 953 X32 +954 X42 + X52 =0 (II)(I)954 + X54 =0 Fila 6 = 064 X41 + 965 X51 + X61 = 0 X61 = - 964 x41 - 965 X51 (四) X62 = -964×42-965×52 964 X42 + 965 X52+ X62 = 0 X63 = - 964×43 - 965×53 a64x43+a65×53+x63=0 X64 = - 964 - 965 X54 (I) 964 + 965×54+ X64 =0 X65 = - 265 (I)965 + ×65 =0 (I): La subdiagence (i=j+1) Hi ha 3 tipus de Rimades: I, II i III (i=j+2) (III): resta de subdiaponela (i>j+2) (*) Cas v general ∀c=2÷n ×i,c-1=- ai,c-1 0 +1=3+4 Xi, 1-2 = -92, 1-2 - 92, i-1 · Xi-1, 1-2 < 1 4; =4+2-3 X2,j=- az,i-2 X2-2,j-az,i-1 X2-1,j <- 2 Quardilat de (*) $\sum_{i=3}^{n} \frac{1}{i} + \sum_{i=4}^{n} \sum_{j=4}^{i-3} 2 = (n-2) + 2 \sum_{i=4}^{m} (i-3) = (n-2) + 2 (1+2+-+(n-3)) = (n-2)[1+(n-3)] = [(n-2)^{2}]$ $\underbrace{(n-2)(n-3)}_{2}$

Es pot for directament, repetit 6 en equest cas particular: $q_{i,i-1} = q_{i,i-2} = 1$, o Es pot for directament, com a 6 pos avançant per columnes".

Fen and wellin, per exemple.

eliminant 19 columno : 10 Pila, queda "el mateix cisteme" ad cus d'abans

$$x_{32}=1$$
 $x_{42}=0$
 $x_{72}=1$
 $x_{72}=1$

avabgament per a b reste de columne.

Aixi dong
$$\begin{bmatrix} -1 = \begin{pmatrix} 2 \\ Xi \end{pmatrix} \end{bmatrix}$$
 and $\begin{cases} Xi, i-1 = -1 \\ Xi, i-2 = 0 \\ Xi, i-3 = 1 \end{cases}$ ek (ex repele) x aixis $\begin{bmatrix} -1 \\ -1 \end{bmatrix}$

Llavon. $||L||_{\infty} = 3$ $||L||_{\infty} = 3$ $||L||_{\infty} = 3$ Eu general: $5 \times n = 3k \times n = 3k = 2k = 2k = 2k = 3k = 2$

Llaws
$$\begin{cases}
8^{\kappa} & M = 3k & 0 & n = 3k \\
8^{\kappa} & M = 3k - 2
\end{cases}
\Rightarrow k_{\infty}(L) = 6k - 3$$