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$$A = \begin{pmatrix} 0.10 \\ 101 \end{pmatrix} \qquad det(A-\lambda E) = \begin{vmatrix} -\lambda & 1 & 0 \\ 1 & -\lambda & 1 \\ 0 & 0 & 1 \end{vmatrix} = -(\lambda - 1)^{2}(\lambda + 1)$$

$$\lambda(A) = 1$$

$$A \times_{A} = \times_{A} \Rightarrow \times_{A} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$det(E-A) = 0 \Rightarrow \text{ we ripoo.}$$

$$A = \begin{pmatrix} 0 & 1 & 0 \\ 1 & 0 & 1 \end{pmatrix} - \text{posynox. no onp.} \quad \text{(uax Az)}$$

$$A^{2} = \begin{pmatrix} 0 & 1 & 0 \\ 1 & 0 & 1 \end{pmatrix} - \text{posynox. no onp.} \quad \text{(uax Az)}$$

$$A^{2} = \begin{pmatrix} 0 & 1 & 0 \\ 1 & 0 & 1 \end{pmatrix} + A^{3} = \begin{pmatrix} 0 & 1 & 1 \\ 1 & 0 & 1 \end{pmatrix} + A^{4} = \begin{pmatrix} 1 & 0 & 1 \\ 0 & 1 & 1 \end{pmatrix} + A^{4} = \begin{pmatrix} 1 & 0 & 1 \\ 0 & 1 & 1 \end{pmatrix}$$

$$S_{1} = \sum_{i=1}^{n} a_{ij}$$

$$S_{2} = \sum_{i=1}^{n} a_{ij}$$

$$S_{3} = \sum_{i=1}^{n} a_{ij}$$

$$S_{4} = \sum_{i=1}^{n} a_{ij}$$

$$S_{5} = \sum_{i=1}^{n} a_{ij}$$

$$S_{6} = \sum_{i=1}^{n} a_{ij}$$

$$S_{1} = \sum_{i=1}^{n} a_{ij}$$

$$A =$$

De lycro Sixi.

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T.C ] X 20 DW>0 - mogyurubusere a

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Reperandensi npulopun n bugy

Reperandensi npulopun n bugy Dra moure isn', ¿ !! HEAD (At(i=0 (mg bugs morphism A) ?! → Or nporubuso: Jij: \H= ((ip ygobn.(\*))  $A^{t} = (\alpha_{ij}^{(4)})_{ij \in S}^{n}$ (+-p) (p) =0 \(\forall k=1m\) \(\forall = 1,...,t-1\) Phyere gase new.  $k \exists p : Q_{kp} > 0$ Tozpa Ade ygoba. (\*):  $A^{t+p} = 0 \Rightarrow Q_{ik} Q_{kj} = 0 \Rightarrow Q_{in} = 0$ At  $A^{t+p} = 0 \Rightarrow Q_{ik} Q_{kj} = 0 \Rightarrow Q_{in} = 0$ Q(p) (6-p) = 0 YK=1,1 J= {k: (i,k) ygobn. (\*) { (I+p): (E) rpucog. x (An 14)? AREMIZ (K) Raogu (\*) Liananamium pacey xpennam Y'EJ Y'EN(I (ij) y g. (4)
T.e. a (3 = 0 - orpep- paznoxumocru. ?! [] A chamerp. A 20 A rpopyer. (E-A) nonex onpeperent Routepuis Eurobecton DA repogner. <=> Sce rocreo. rnabrune <=> rono\*, onp munopu novoxur. no montebro inpostar.