$$A = \begin{bmatrix} 2 & -1 & -1 \\ 3 & -2 & -3 \\ -1 & 1 & 2 \end{bmatrix}$$

$$U_1 > (L^2)^2 \text{ any ag } 1c$$

$$\lambda_1 = 0 \quad \text{alo} = 1$$

$$\lambda_2 = 1 \quad \text{all} = 2 \quad \text{c-saja'+en+thek}$$

$$\lambda_1 = 0 = 1 \quad \text{WA}_1 = \begin{cases} x_1 \cdot \begin{pmatrix} -1 \\ -3 \end{pmatrix} \mid x_1 \in \mathbb{R} \end{cases}$$

$$U_2 = 1 \quad \text{alo} = 1$$

$$U_3 = \begin{cases} x_1 \cdot \begin{pmatrix} -1 \\ -3 \end{pmatrix} \mid x_1 \in \mathbb{R} \end{cases}$$

$$U_4 = 1 = 1 \quad \text{glo} = 1$$

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$$U_4 = 1 \quad$$

$$C = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix} \qquad D = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 1 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

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$$C^{-1} \cdot AC = D$$

$$\lambda_1 = C$$

$$\lambda_2 = 1$$

$$\begin{cases} x_1 \cdot \begin{pmatrix} -1 \\ -3 \\ 1 \end{pmatrix} \middle| x_1 \in (1 \leq 0) \end{cases} \text{ e's } \begin{cases} x_2 \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix} + x_3 \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \middle| x_{2,1} x_3 \in (1, n_{\text{rm}} C - ab) \end{cases}$$

$$=) \text{ diagonalis alab: } D \text{ maitaix}$$

$$A = \begin{bmatrix} 1 & -1 & 1 \\ 1 & 1 & -1 \\ 0 & -1 & 2 \end{bmatrix}$$

$$A_1 = 1 \quad \alpha(A) = 2$$

$$\lambda_2 = 2 \quad \alpha(z) = 1$$

$$az = j\ddot{c}H + 4i$$
  
 $g(1) = 1 = j = 0$   
 $g(2) = 1 = j = 0$   
 $g(2) = g(2) = j = 0$   
 $g(2) = g(2) = 0$ 

$$\begin{cases}
A = \begin{bmatrix} 1 & -1 & 1 \\ 1 & 1 & -1 \\ 2 & -1 & 0 \end{bmatrix} \\
\lambda_{1} = 1 & a(1) = 1 \\
\lambda_{2} = 2 & a(2) = 1 \\
\lambda_{3} = -1 & a(-1) = 1
\end{cases}$$

$$\begin{cases}
a(1) = y(1) = 1 \\
a(-1) = y(2) = 1
\end{cases}
= y \forall A \lambda \quad \text{So}_{1} = 1 \text{the let} \\
a(-1) = y(2) = 1
\end{cases}
= y \forall A \lambda \quad \text{So}_{1} = 1 \text{the let} \\
= y(1_{1} \times 1_{1}) (1_{1} \times 1_{1}) (1_{1} \times 1_{1}) (1_{1} \times 1_{1}) (1_{1} \times 1_{1})$$

$$\begin{cases}
-1 & 1 & 1 \\
1 & 0 & -3 \\
1 & 1 & -5
\end{cases}
\end{cases}
= \begin{cases}
1 & -1 & -1 \\
1 & 1 & 0
\end{cases}$$

$$A = \begin{cases}
1 & -1 & -1 \\
1 & 1 & 0
\end{cases}$$

$$A = \begin{cases}
1 & -1 & -1 \\
1 & 1 & 0
\end{cases}$$

hijöl hogy NING sajat bazig

nem diagonalizailhate