$$U = (V_1, ---, V_2)$$

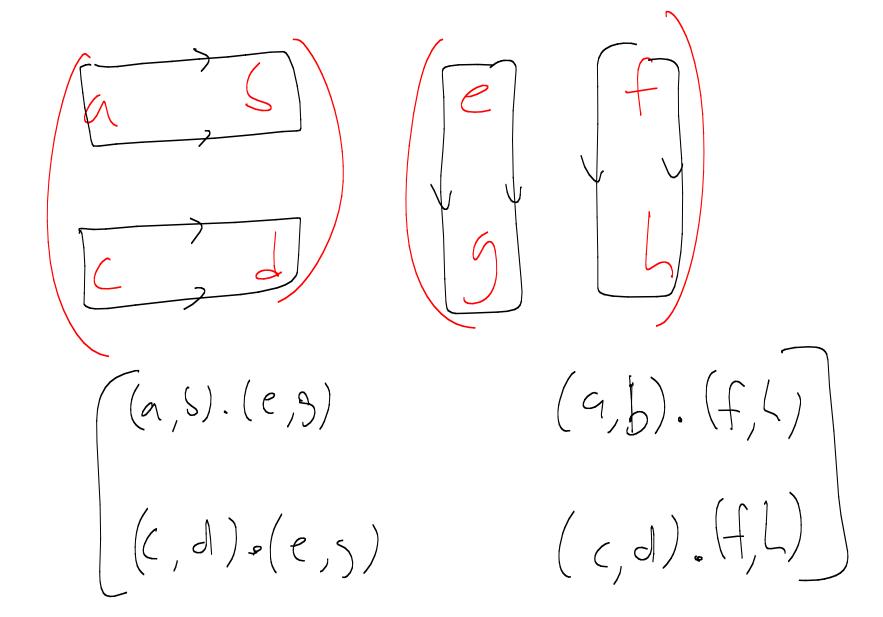
$$V = (V_1, ---, V_2)$$

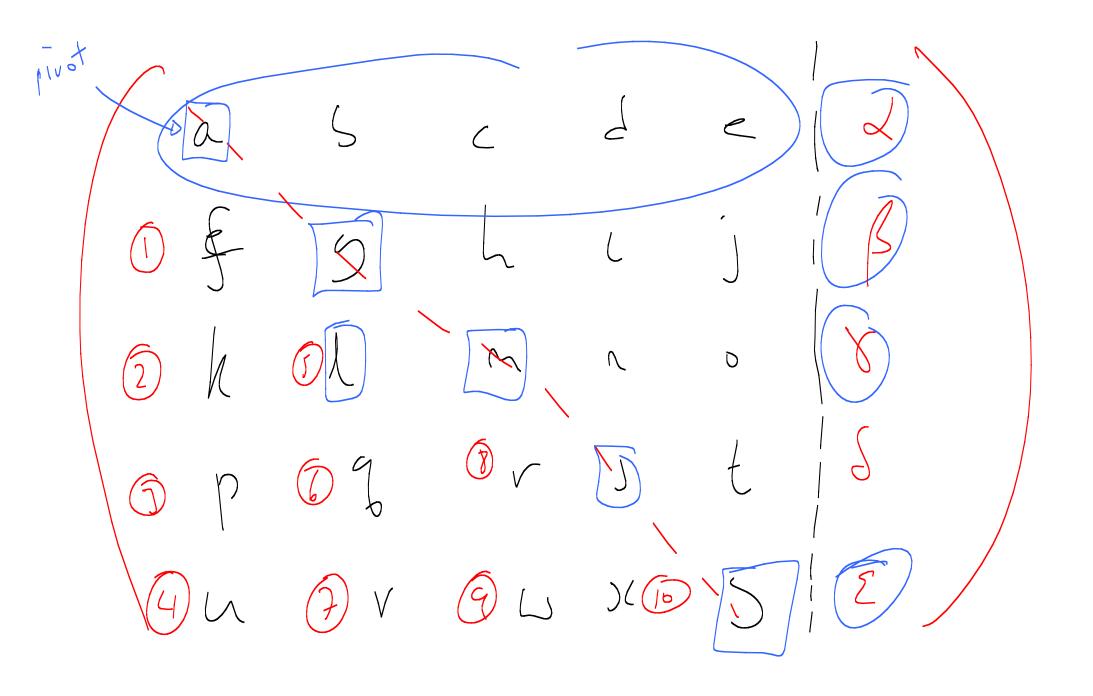
U de parime Vector. II

$$|U||V| cos d = U cos d = \sum_{i=1}^{n} u_i v_i$$

$$|U||V| cos d = \sum_{i=1}^{n} u_i v_i$$

$$|U||V|$$





 $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$   $= \left| \begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right|$ 

A = A = 0

1A - AI) V = 0 John for [A- AI] = 0 A (A- AI)

$$(3-2)[(-1-2)^{2}] = (3-2) = (3-2) = (3-2)[(-1-2)^{2}] = (3-2) = (3-2)[(-1-2)^{2}] =$$

A normalited vector is singly one Where we divide by its streets

Unit Vector

 $\int a = \frac{1}{|a|} = \frac{1}{|a|}$ 5 h i) 1i) > 151+1111~