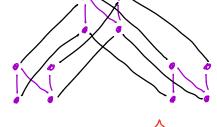
$$P \times Q$$
 $(p,q) \leq (p',q')$ if $(p,q) \in P \times Q$ $p \leq p'$ and $q \leq q'$

EXAMPLES

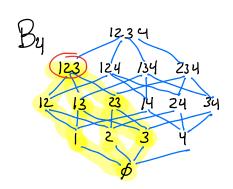
$$\chi =$$







$$(c,x)$$
 $(c,y) = \hat{1}$ (b,x) (a,y) (b,x) (a,y) (b,x) (a,y)



$$\mathcal{L}_{123} = \mathcal{B}_{3} = \mathcal{L}_{134}$$

$$234$$

$$\mathcal{L}_{12,239} = \begin{cases} 12 & 23 & 24 & 34 \\ 1 & 2 & 3 & 4 \end{cases} = \mathcal{L}_{12}$$

Doch Given a poset P, define the lattice of erter ideals J(P) with inclusion as relation.

Desh An antichan is a susur

1 cD ASP St. XIY incomparable & x, yeA district.

$$\mathcal{T}\begin{pmatrix} c \\ 1 \\ b \\ 1 \\ a \end{pmatrix} = \mathcal{Z}_{b} = \{c_{1}b_{1}c\}$$

$$\mathcal{Z}_{a} = \{a\}$$

$$\mathcal{Z}_{\phi} = \phi$$

$$\mathcal{Z}_{\phi} = \phi$$

$$\mathcal{J}\left(\begin{array}{c} a \\ b \end{array}\right) =$$

Defn A lettre Lis distributue: f sv(tnw=(sut)n(svw) sn(tvw) = (snw) (snt)

Bn is dist. Brigging not.

Theorem of finite distributive lettre. The J. part P S.E. L = J(P).