Lec # 17 Equivalence Classes.

[a]= { sl (ais) ER3.

P496

Exq: Ref(aib) a zb mod mg AzZ.

m70.

[0] = { 01+41+81+12, ----- }

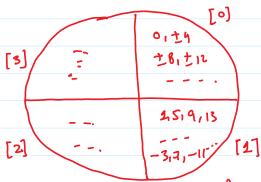
m=4.

[2] = {

7

3.

Categoriza trun.



PARTITION Let P2 & P1, P2, P3, --- Pn } lee a family of Sets. P creates a partition of S.

- 4) Vi Pita.
- 2) Yij Pinij = + i +j.
- 3). 0 Pi = S.

Ex13 499

A12 8212137 A22 64158, A32968.

A12 9212131 A22 24159, A32961.

S2 & 1, 2, 3, 4, 5, 6}. Does A, Az, Az Gratus
a partition of S.

4) Y; Pi + P.

Pi + P A P2 + P AP3 + P.

{2,2,33 + P A {4,53 + P A {63, + P}.

T A T AT 2T V.

2) Yij Pinij = p i tj.

PINP2 = P N PINP3 = P N P2 NP3 = P.

(212133) (44,53) = 9 N (112133) (463) = P N (4153) (463) = P.

3). $\bigcup_{i=1}^{\infty} f_i = S$.

P, U P2 U P3 2 S.

64,2,--63, z 64,2,--63.

Equivalence classes Creates a Partition.

EP -> EC -> Partition.

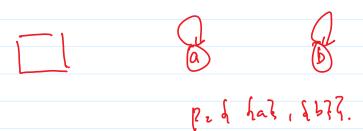
Pastition in the Above Example.

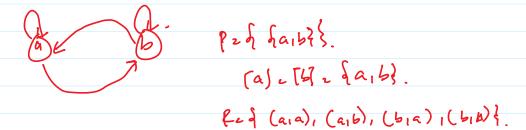
Pz f 69,2133, h4153, 6633.

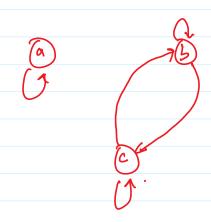
 $\det \left[1\right] = \left\{1, 2, 3, 3, 2, 2, 3, 3, (2,1), (2,2), (2,3), (3,1), (3,2), (3,2), (3,3),$

 $\begin{array}{lll}
\text{det} & \begin{bmatrix} 1 \end{bmatrix} z & h & h & 2 & 13 \\ h & 2 & 3 \\ 1 & 2 & 4 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 2 & 4 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 2 & 1 \\ 1 & 2 &$

R2 δ (2,2), (2,2), (43), (21), (2,2), (23), (3,1), (3,2), (3,3), (4,4), (4,5), (5,4), (5,5), (6,6) ξ







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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

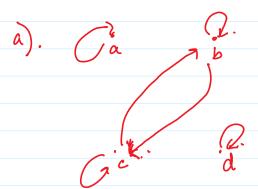
$$\begin{bmatrix}
1 & 0 \\
0 & 1
\end{bmatrix}$$

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

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

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

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



6). Per (a1b) lazb mod mf. m=6.
[-3] = { ? ? }.

Rivd Partition.