T10 G1 18 Feb 2022 Def: - The elevates a adle of a possel (S,R) are called Goognaakle if either arb es bra. 2 and 4 aue Consparable  $(Z^{\dagger}, I)$  Pose 2/43 ad 5 au not Conpaidle 3/5 and 5/3 Enlorgasable If neither arb nos bra then and base called incomparable elements If (S,R) is a popel and every no elements of the set are Corparable to each other. Hen S is Called Linearly ordered set or totally ordered set. S= { 2,4,8,16,32 }, ) -> divinisitary 2R4 R8 R16 R32

# S=Z=2,4,8,16,329, 2|4=4|8=8|6=22 2|8=4|16=8|37=2|4,8|16|37=2|4,8|16|37=2|4|8|16|37=2|37=2|37=2=2,4,8,16,329, Z=Z=2,4,8,16,329, Z=Z=2,4,8,16,232, Z=Z=2,4

A totally ordered set is also called as chain  $S = \begin{cases} 6, 16, 8, 2, 12^{2} \end{cases}$ 

S= 26, 6, 8, 2, 129, 6/8 and 8/6 1 8/12 ad 12/8 6ad 8 + in corparable clarks 8 ad 12, 12 ad 16 A Which of these pair of electrics are comparable in the poster  $(Z^t, f)$ 6 6,9 6 8,16 6 7,7 5, 15 8/16 6 9 ad lasse Diagram  $A = {}^{9}1, {}^{2}, {}^{3}, {}^{4}$ O Reflexive 3 from the arb, bit arc A= & 1, 2, 3, 4, 6, 8, 12?

1 2 2 4 4 1 2 4 9 6