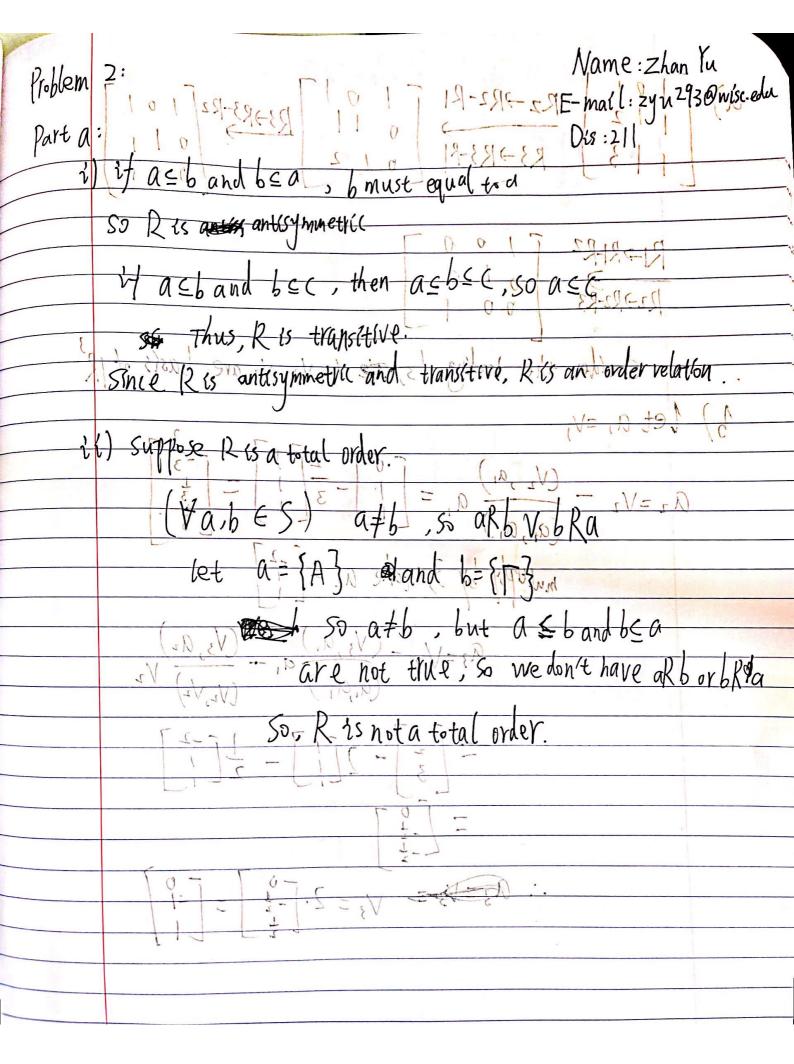
E-mall: zyu293@wsc.edy DUS: 211 Problem 1: A= {0, 1, 2, 3, 4, 5? Tart a. R = ((0,0),(1,1),(2,2),(3,3),(4,4),(5,5),(1,5),(5,1),(2,0) 0,2),(4,1),(1,4),(5,4),(4,5) equivalence classes: [i] = [1,4,5] = [4] = [5 [2]={2,0}=[0] Part No, S is not a equivalence relation because |x/</Y Then 14 Cannot be < 1x 50, 5 is not sy mmetric, and not a equivalence relation. (1) S is an order relation | X > | Y | and | Y | > | X |, the | X | must equal to | Y so ses antisymmetric If | X | E | Y | B and | Y | E | Z |, then | X | must | E | Z 50 5-55 transitive So s is an order relation

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र्भर) ,	R is a partial order	
	Va ∈ S, a⊆a, So R is reflective	e, the Risa partial
<i>۲۷)</i>	R is not strict order	
	reflective and is not antireflective so it	Hve
	Thus, Risnot a Stric orde	γ.
Part	tb. i) maxmimal element: {/+,B,}	3, 8, 5, 7
	ii) minimal element: {\$}	
	iri) There is no greatest element tv) The least element is (\$?	

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