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	Discrete Structure		
	Tutorial 3		
1>	Solutions: $A = \begin{cases} 1,2,3,4,5,6 \end{cases}$ $\therefore R = \begin{cases} (i,j): i-j =2 \end{cases}$		
•	R: \(\{(1,3)\), \((2,4)\), \((3,5)\), \((4,6)\), \((3,1)\), \((4,2)\), \((5,3)\), \((6,4)\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	R is symmetric or mirror images of each pair is there? $\{(1,3) \rightarrow (311)\}, \{(2,4) \rightarrow (412)\}, ((315) \rightarrow (513)), \{(4,6) \rightarrow (614)\}\}$ R is not transitive as $(1,3) \in \mathbb{R}$ and $(311) \in \mathbb{R}$ but $(111) \notin \mathbb{R}$ $\mathbb{R} = \{(1,2), (1,3), (1,4), (2,3), (2,4), (3,4)\}$		
2>			
	WO = MR = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Since there are no '1's in column 1, no new '1's coil be added in wo, Hence Wo = W1	
Sundaram	: W1 = 0 0 1 1 0 0 0 0 0 0 0 0	P: (1,2) 91: (2,3), 92: (2,4) add (1,3), (1,4) in \(\omega\) EDUCATIONAL USE	
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