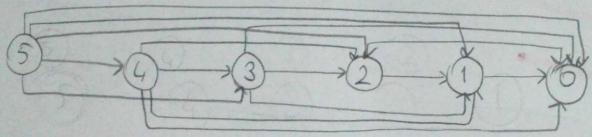
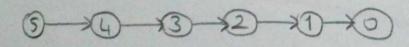
Problem 1:

Draw the Hasse Diagram & 20,1,2,3,4,53,>3

差 (1×0), (3×0), (2×1), (3×6), (3×1), (3×2), (4×6), (4×1), (4×2), (4×3), (5×0), (5×1), (5×2), (5×3), (5×4) }



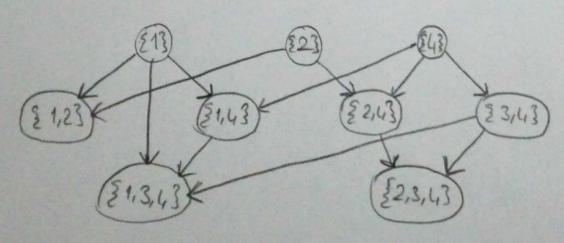
Delete the transitivity: 2 (5×4), (1×3), (3×2), (2×1), (1×0) 3



Minimal elelement = 5 maximal element = 0

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Poset= $(\{2, 3, 4, 3\}, \{2\}, \{4\}, \{1, 2\}, \{1, 4\}, \{2, 4\}, \{3, 4\}, \{1, 3, 4\}, \{1, 3, 4\}, \{1, 4\}$



- a) £1,23, £1,3,43, £2,3,43
- b) 813, 223, 243
- c) No

- e) {2,43
- f) $\frac{21,343}{5} \rightarrow LB = (£13, £1,43, £3,43)$ $£23,43 \rightarrow LB = (£23, £2,43, £3,43, £43)$
- d) $\{23 \rightarrow UB = (\{21,23,22,43,22,3,43\}) \ h) \{343 \\ \{43 \rightarrow UB = (\{21,43,21,3,43,22,43,23,43\}) \ h) \}$