Covering the topics. Orsans of in the class.

Vhistory: Schaum's Series? " exercise

That I have and Burdlean Algebra. " Chily or schaum's Series?" exercise Assignment-3. (Um7-3). Deiz 3 > Manday (> Vm(-3) - Unite12 - (ryptografoy.) { & ham?

| | Applications of Cultice theory. 30 September 2020 (09:24) |
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| | The Mattie model of information flow |
| | The Nafrice model of information flow a differings flow policies a Matrice Con he used to represent 1 t. |
| | force multiplevel security bolicity. |
| | forcy. multi-level secratify policies. A 1 Diece of info > Security class (A, e) |
| | A 1 |
| | (nfo) Undurfred (8) Authority (alagory) |
| | socret 12) A-1 Spis, mores, double I level Subset of Sel-of. |
| | top-secret (3) IAI all Compartments |
| | Info > On claurfied. (0) (antidential (1) A= { Spics, moles, clauble } level !! = gerret (2) secret (2) specret (3) 1A1 = 8 > Category > aths - (1) inph = |
| | |
| l V | $(A_1, C_1) \qquad (A_2, C_2)$ (A_2, C_2) |
| | (A1, C1) (A2, C2) Jais The standard of the stand (A1, C1) -> (A2, C2) iff |
| | |
| | $(A_1, C_1) \leq (A_2, C_2)$ |
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100 Tothree 263 - 200, mod dalle gan 1. from (A, C) to (A, C2) e.g. (Secret, { Spics, males}) > { top Secret, { Spics, males, double agents?) of top Seiret, { Spirs, moles}) -> 2 Seeret, { Apris, moles, double agents } $(A_{9}C_{1}) \leq (A_{9}C_{1}) \leq X$

| Sels > Set of Security classes (Az CD \((Az, CZ) M) A&AZ CIECZ | 5-min |
|--|-------------------------------------|
| - Prove that (Sox) is a dattice. | - losel |
| Posel. > 1) Reflexive , (A ₁ C) < (A ₁ C) A < A, C < C 2) Anti-Symmetric > (A ₁ C ₁) < (A ₂ , C ₂) > A < A ₂ . | - loset - Loy(s) - 8 m/s) = 1 |
| $(A_{2},c_{2}) \leq (A_{3},c_{1}) \Rightarrow A_{2} \leq A_{1}-$ $c_{2} \leq c_{1}$ | latrice |
| 3) | A:= 1/2 C, = c2 \$ |
| Sets in a Poset; | $C_1 \subseteq C_2$ |
| | |

30 September 2020 09:45 (A1, C1) (A2, C2) sy (min (A1, A2), C1 n C2) Inf (s):> $\min(A, A_1) \leq A_1 - C_1 \cap C_2 \subseteq C_1 \subseteq$ godab. $X \leq (A_1, c_1)$ (9,6) min (A,A) < A2 < C11 C2 C C2 X < (Az,CL) $(min(A_1,A_2), C_1 \cap c_1) \leq (A_1, c_1)$ Xh lower band (mm (A, A), C, 1C2) = (A2, C2) $(A_1,C_1) \leq (A_2,C_1)$ Iff $A \leq A_2$ $(min(A_3A_2), C_1A_2)$ h larerband If (Ac) is clower bound, then AEmm (AngA) $A \leq A_1$ $C \leq C_1$ \Rightarrow $A \leq A_2$ $C \leq C_2$ C C C 10 cz (Ac) < min (A, A), CIAez)) min((A, A), C, n(2) 15 g-2.6) ony(s) exo Sup(S) > (max (A, A), C, UCZ)

Johnson Johnso Topology in (s) Arrangement to the objult that Canbe Connected with edges. Problem: 20 fostes, -> Some took defendant on other tookes. Company Cartifal Carlo dependent on foste 5:

dele dependent

Grand find the order of the feeter.

Adultion: find the order of their tarks.

Adultion: find a partial order with Pelotar acbiff b Cannot sperted unkile testica has firmished.

A total ordering < 1s Compatible with partial order felotan R.

If a \le 5, thema \le 8.

-> Consimuling a Compatible total ordering form a partial ordering is

(allel topological sorting.

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| to holograf Safing: |
| Later Combination of the second of the secon |
| Lamming Every finite non-empty posel (s, \le) has at least one minimal elevent |
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| q_0 $q_1 < q_0$ $q_1 < q_0$ $q_2 \times q_1 < q_0$ $q_1 \times q_0 = q_0$ $q_1 < q_0 = q_0$ |
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