Pringaneh Salian Assignment 2 1. 63, 9, 19, 18, 108, 99, 81, 45, 12, 106 Step 1: Insert 63 Step 2 Insert step3 Insert 19 Step 4 Insert 18 Step 5 Dosort 108 step 5 9 neert 9 9 Step 7 Insert 81 FOR EDUCATIONAL

Stop 8: Insert 4 5 Step 9 meent step10 Dosert 106 & and form a tree Insent this & FOR EDUCATIONAL USE

Step? Delete B& and insert 2 (D-F) Low a the tree Deleto Step3. em in priority queue Frequency 24 FOR EDUCATIONAL USE (Sundaram)

Ans Nashing is a technique of mapping teys, values into hash table by using a hash tunition . It is done for taster to access to elements. 228 Sige = 10 63,82,94,77,53,87,23,55,10,44 1. Insert 63 4. Insort 77 = 63%. 10= 3 2. Insert 82 5. Insert 53 = 821.10=2 5311053 Collision here at 3 3. Dosert 94 (53+1) 1/10 941.10=4 Collision again (53+2)1.10 6. Invest 88 2. Insort 35 =877.10=7 Shore is no collision at Collision (87+1)110=8 581.10 = 9 7. Insent 23 9. Insert 10 231/10=3 10/10-0 collision 2+110=4 10. Insert 44

Collision, 261.10 = 6

441:10=4

Collision, 25/10=5

Sundaram

5. i Sopological cost Sorting Aor directed acyclic graph is a linear ordering vertices such that for ear every edge 14 v - Vertex comes before Vin Ordering ii. Ot is not possible it graph's not DAG, 111. There can be more than one topological Sorting for a graph IV. This Lorst Dertex in topological sorting is always a sertex within indegree as o V. Shis is used in data sterligation Vi Shis is used in instruction sheduling VIII. This is used in determining the order of compilation tasks compiling task to perform in make files. Ans Post Order - DEFBOILJEHLA In Order - DBFE & ACICLIHK i From the post order the fast element's the node element since its IRV treatment.

thild of

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