Page No. Heaps1 Complete Binory Pree 1. Sach internal mode has almost 3 children 2. All the limbs except the last on are Jule. 3. Nodes Leaves appear from ly+ to right at last limbs. Heap. Heap is a complete Binony Poel in which each internal nodes is sabisfies. V< left child and Right child n Height of heap is 2°+21+23-. 2K= N

Date: / /
Page No. of an array supresents a heaps (4) for zero based indenting children of i = 2i+1, 2i+2 parent of i'z \ [1/2] i=odd 1 1 /2 | 92 even (E) Gruen a min heat, how can you use It to sost numbers. Rumning time of heap sost = O(Mogn) (6) each Tim head sox is implement is called, the height is decreased by 1 at man you would have to cell heat so of or Ruming time of Shiptdown 2 O(logn) Build heap algorithm.

Correctness

Ly Running IN (3) Gruen a map, add or delete. (8)