ADS LAB BINOMIAL HEAP WRITEUP

function delete (of Node th, int val) {

if (h) rehun NULL; decrease key B Heap (h, vol, INI_ MIN); rehwn extact Mintheap (h);

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function deceasekey BHeap Node * H, int old v, int new v) { Node - note = findNex (H, all), if (I node) Fehrn; node sel = news;

Node "parent = node > parent;

while (parent) = NUL &f node > Val < parent > val) & Swap(nate > vol, patet = vel);

Node = porent;

porent = porent > porent,

Auction tentact Minteap (Nacle + 4) { if (Ih) return NULL,

Not * min - prov= NULL;

Nale * min == h; ist min = h > val;

rode +wr= h;

While (cur - sibling | = MULL) { if ((wes sibling) and kmin) {

min = wars sibling = val;

Minglev= CN;

min = = curessibling ;

AKSHAY MITTOR 16/12/20 1BM18(5010 (W=W(=sibling) Ang LAR if (Min-prov = NULL 82 min -> sibling == NULL) h= NULL; else if (min-prev == NULL) h=mn = > sibling; else min-prev => sibling = min-sibling; if (min - schild) { revertlist (min=>child); m' my Kild > sibling = NXLi } remon union Becar (h, root); function findNode (Node + h, int val) {

if (Ih) rehm NULL; if (hard == va) return h? Nade "res = findNode (Hand hachild, val);
if (res! = NULL) rehar res;
rehar findNode (hasibling, val); function revertlist (Nake th) } reverthist (h > sibling);

h > sibling > sibling = h;

delse root=h;