## Bironial Hear Writery

```
furtiondelete ( Node* h, int wal)
  if (!h) setuan NULL;
  decreankey BHeap (h, real, INT_MIN);
  autur extract Min Heap (h);
 function decreakey & Hear (Node * H, int allo, int nov)
   Node* node: findNode (H, ollo);
   of (! node) return;
   node -> wal = new v;
   Node * pasent : node > pasent;
   while ( parent ) = NULL & & noole > wal < parent -> val ) {
   mod (rode -> val, paut -> val);
   Node = paunt;
   parent = parent -> parent;
 function externat MinHeap (Node * h)
    if (!h) outeren NULL;
                                 full the way will have
    Node * min- prov = NULL;
    Node tonin = h;
    ant min = h -> wal;
    Nade * cuara = h;
```

```
S.R.PUNEETH
while (curse -> silving ! = NULL)
                                                         IBMB CS087
 if ((was -> sibling) -> wal < min) }
   min = cuon -> sibling -> wal;
 min_pero = cura;
min_ = cura -> sibling;
 over = crown -> sibling;
  if (min-pour = = NULL dd min -> sibling = = NULL) h = NULL;
  else if (nin-paro = = NULL) h= nin_ -> sibling;
  else min-paro -> sibling = min-sibling;
                                                February Resolution
  of (min - ) child) {
    crevestlest (min -> child);
     nin -> child -> sibling = NULL;
                                        Joan a James Turks
 enturn union BHcap (h, and);
 function find Noole (Noole + h, int wal) {
   if (!h) outlier NULL;
   if (n -> roal = = roal) creturn h;
   Node * ais = findNode (h -> ichild, voal);
    if (aes! « NULL) certuen ores;
   vituen findwode (h-) sibling, oal);
  function occertdist (Node * h) {
   if (h -> sibling) {
     crepertlist (h -> selding);
      h -> sibling -> sibling = h;
  clse and = h;
                                                         S. R. Pured
```