Batch-3

ADS LAB

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10] Delete(H) & Decreasekey(H) function on Binomial Heap.

```
//Decrease key(H) Function

void decreasekeyBHeap (Node *H, int old-val, int new-val)
{
  Node *node = findNode (H, old-val);
  if(node == NULL)
      return;
  node -> val = new-val;
  Node *parent = node -> parent;
  while (parent ! = NULL && node -> val < parent -> val)
  {
      swap(node -> val, parent -> val);
          node = parent;
          parent = parent -> parent;

  }
}

//Function to delete an element

Node *binomialHeapDelete (Node *h, int val)
{
    if (h==NULL)
        return NULL;
    ~~if (h->val == val)~~ decrease keyBHeap (h, val, INT_MIN);
                       return extract MinBHeap (h);
}

// Function Find Node
Node *findNode (Node *h, int val)
{   if (h == NULL)
          return NULL
    if (h-> val == val) return h;
  Node * res = findNode (h->child, val);
    if (res ! = NULL)
       return res;
    return findNode(h->sibling, val);
}
```