

APS Lab 11 - Programs 10

Binomial Heap writeup

Utility functions -

```

function revertList (Node *h) {
    if (h->sibling) {
        revertList(h->sibling);
        h->sibling->sibling = h;
    }
    else root = h;
}

function findNode (Node *h, int val) {
    if (!h) return 'NULL';
    if (h->val == val) return h;
    Node *res = findNode(h->child, val);
    if (res != NULL) return res;
    return findNode(h->sibling, val);
}

function extractMinHeap (Node *h) {
    if (!h) return NULL;
    Node *min_prev = NULL;
    Node *min = h;
    int min_val = h->val;
    Node *curr = h;
    while (curr->sibling != NULL) {
        if (curr->sibling->val < min_val) {
            min_val = curr->sibling->val;
            min_prev = curr;
            min = curr->sibling;
        }
    }

```