# Binomial Heap Operations

Sahana b
1BM18CS089

```
// DecreaseKeyBHeap
void decreaseKeyBHeap (Node *H, int old_val, int new_val)
{
    // Check element is present or not
    Node *node = findNode (H, old_val);
    // return if node is not present
    if (node == NULL)
        return;
    // reduce the value to minimum
    node->val = new_val;
    Node *parent = node->parent;
    // Update the heap according to reduced value
    while( parent != NULL && node->val < parent->val)
    {
        swap (node->val, parent->val);
        node = parent;
        parent = parent->parent;
    }
}

// Delete
Node *binomialHeapDelete (Node *h, int val)
{
    // Check if heap is empty or not
    if (h == NULL)
        return NULL;
    // Reduce the value of element to minimum
    decreaseKeyBHeap (h, val, INT_MIN);
    // Delete min element from HEAP
    return extractMinBHeap (h);
}
```