

16/12/2020

Assignment H 8  
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### ADS Lab

#### Binomial Heap (Decrease & Delete)

```
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;  
    }  
}
```

```
Node* delete (Node* h, int val) {  
    if (h == NULL)  
        return NULL;  
    decreaseKeyBHeap(h, val, INT_MIN);  
    return extractMinBHeap(h);  
}
```