

ADS Lab

```
func decreaseKey (Node H, old-val, new-val):  
    Node node = findNode(H, old-val)  
    if (node == NULL): return;  
    node.val = new-val  
    Node parent = node.parent  
    while (parent != NULL and node.val < parent.val):  
        swap(node.val, parent.val)  
        node = parent  
        parent = parent.parent  
  
func Delete (Node H, val):  
    if (H == NULL): return;  
    decreaseKey(H, val, MIN_INT)  
    return extractMin(H)
```