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1BM19CS404

01. Write a program to implement the follow-
-ing functions on a Binomial Heap :

(i) delete (H)
(ii) decreaseKey (H)

```
Node *binomialHeapDelete (Node *h, int val)
{
    if (h == NULL)
        return NULL;

    decreaseKey (h, val, INT_MIN);

    return extractMinHeap (h);
}


Node decreaseKey (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;
}
}
```