

Program-10

```
Node *findNode(Node *h, int val)
```

```
{  
    if(h == NULL)  
        return NULL;
```

```
    if(h->val == val)  
        return h;
```

```
    Node *res = findNode(h->child, val);  
    if(res != NULL)  
        return res;
```

```
    return findNode(h->sibling, val);
```

```
}
```

```
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 *binomialHeapDelete(Node *h, int val)
```

```
{
```

```
if (h == NULL)
```

```
return NULL;
```

```
decreaseKeyBHeap(h, val, INT_MIN);
```

```
return extractMinBHeap(h);
```

```
}
```