

→ Btree node.

```
class Node{
    int *keys;
    int t;
    Node **C;
    int n;
    bool leaf;
public:
    Node(int t, bool leaf);
    void insert NonFull(int k);
    void SplitChild(int i, Node* y);
    void traverse();
    int findKey(int k);
    friend class BTree;
};
```

```
class BTree{
    Node* root;
    int t;
public:
    BTree(int t){
        root = NULL;
        t = t;
    }
    void traverse() {
        if (root != NULL)
            root->traverse();
    }
    void deletion(int k);
    void insert(int k);
};
```

// inserting an element.

```
void BTree::insert(int k) {
```

```
    if (root == NULL) {
```

```
        root = new Node(t, true);
```

```
        root->keys[0] = k;
```

```
        root->n = 1;
```

```
    } else {
```

```
        if (root->n == 2 * t - 1) {
```

```
            Node *s = new Node(t, false);
```

```
            s->c[0] = root;
```

```
            s->splitChild(0, root);
```

```
            int i = 0;
```

```
            if (s->keys[0] < k)
```

```
                i++;
```

```
            s->c[i] -> insertNotFull(k)
```

```
            root = s;
```

```
        } else
```

```
            root->insertNonFull(k);
```

```
    }
```

```
}
```