

CAB-5

⇒ 2-3 tree :- Insertion and deletion:-

```
class TreeNode
```

```
{
```

```
    int *keys;
```

```
    TreeNode **child;
```

```
    int n;
```

```
    bool leaf;
```

```
    // functions declarations
```

```
};
```

```
class Tree
```

```
{
```

```
    TreeNode * root = NULL;
```

```
    public:
```

```
        void traverse() {
```

```
            if (root != NULL)
```

```
                root->traverse();
```

```
        }
```

```
        void insert(int k);
```

```
        void remove(int k);
```

```
};
```

```
void Tree::insert(int k)
```

```
{
```

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

```
    {
```

```
        root = new TreeNode(true);
```

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

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

```
    }
```