

2-3 trees

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

```
{ if (root == null)
```

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

```
root, keys[0] = k;
```

```
root.n = 1;
```

```
}
```

```
else
```

```
{ if (root.n == 3)
```

```
{ TreeNode s = new TreeNode (true);
```

```
root, keys[0] = k;
```

```
root.n = 1
```

```
}
```

```
else
```

```
{ if (root.n == 3)
```

```
{
```

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

```
{ if (root == null)
```

```
{ cout ("Tree is empty");
```

```
return;
```

```
}
```

```
root.remove (k)
```

```
if (root.n == 0)
```

```
{
```



TreeNode temp = root;

if (root.leaf) root = null;

else root = root.child[0];

}

return;

}

}