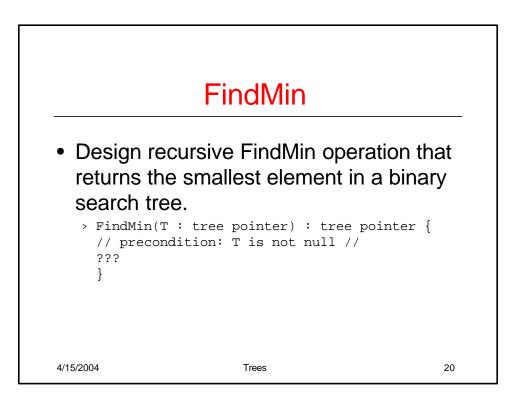
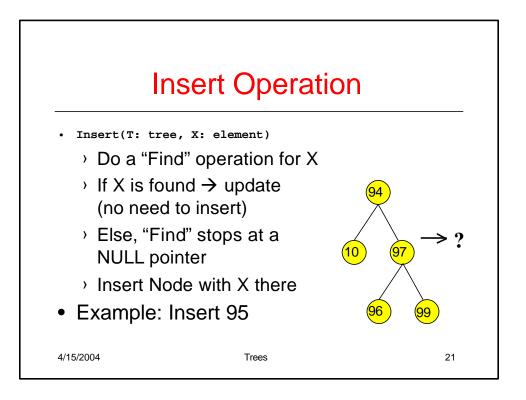
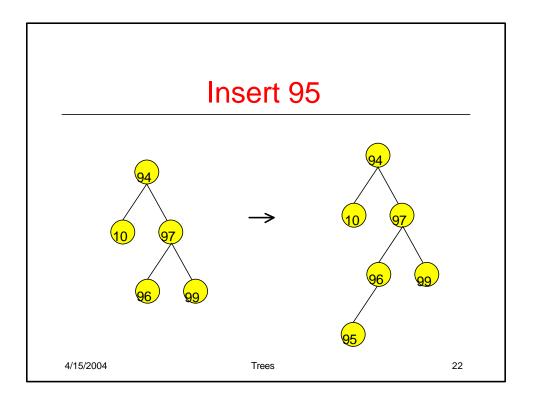


## Find

```
Find(T : tree pointer, x : element): tree pointer {
   case {
     T = null : return null;
     T.data = x : return T;
     T.data > x : return Find(T.left,x);
     T.data < x : return Find(T.right,x)
   }
}</pre>
```







## Insert Done with call-byreference

```
Insert(T : reference tree pointer, x : element) : integer {
if T = null then
  T := new tree; T.data := x; return 1;//the links to
                                          //children are null
case
  T.data = x : return 0;
                                              This is where call by
  T.data > x : return Insert(T.left, x);
  T.data < x : return Insert(T.right, x);</pre>
                                              reference makes a
endcase
                                              difference.
}
     Advantage of reference parameter is that the call has
     the original pointer not a copy.
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                               Trees
                                                                 23
```

