

```
class PhoneBookEntry {
    String name;
    PhoneNumber phnum;

    PhoneBookEntry(String name, PhoneNumber phnum) {
        this.name = name;
        this.phnum = phnum;
    }

    void updateNumForName (String forname, PhoneNumber newNum) {
        if (this.name.equals(forname)) {
            this.phnum = newNum;
        }
    }
}
```

```
class MenuItem {
    String name;
    int price;

    MenuItem(String name, int price) {
        this.name = name;
        this.price = price;
    }

    void updatePriceForName (String forname, int newPrice) {
        if (this.name.equals(forname)) {
            this.price = newPrice;
        }
    }
}
```

```
class PhoneBookEntry {
    String name;
    PhoneNumber phnum;

    PhoneBookEntry(String name, PhoneNumber phnum) {
        this.name = name;
        this.phnum = phnum;
    }

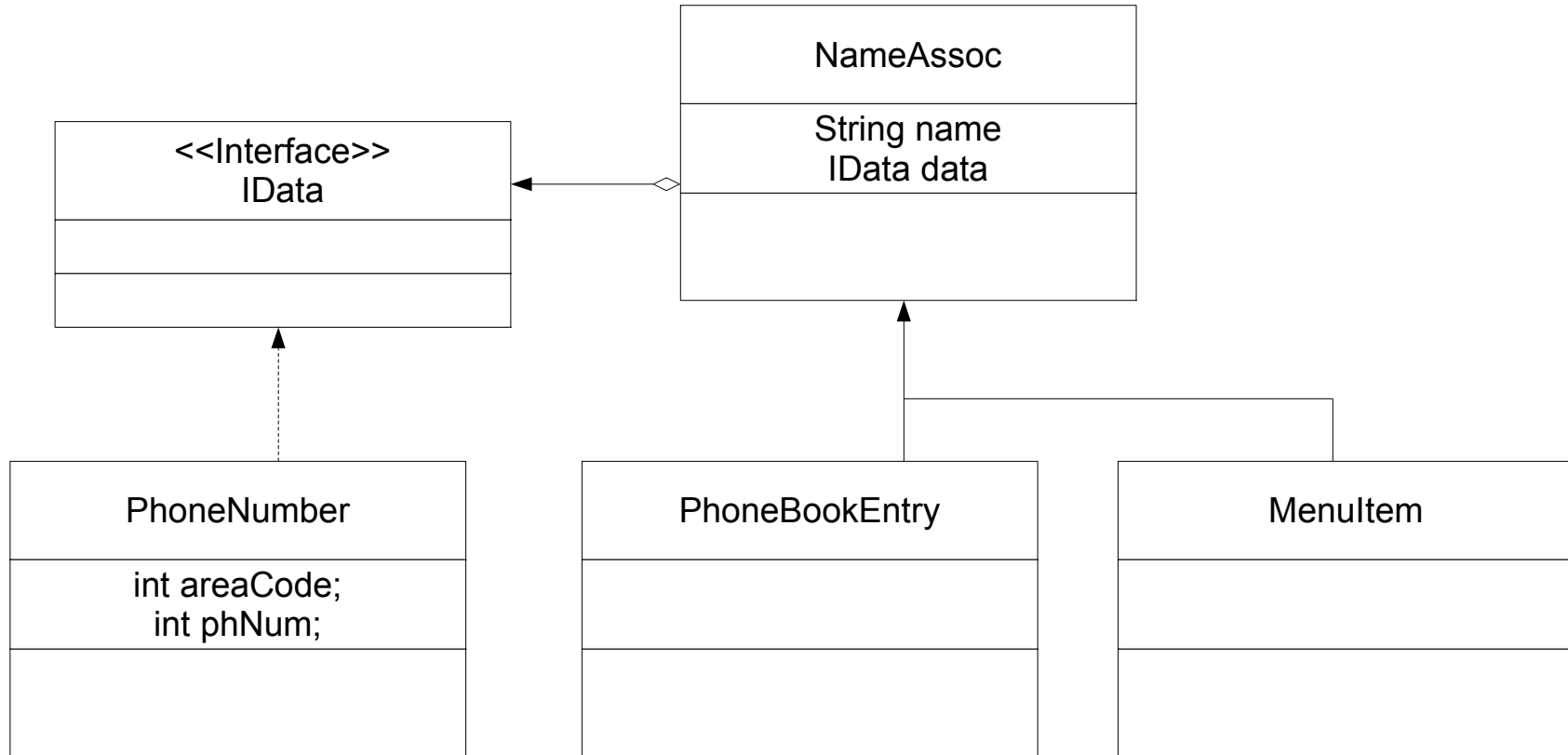
    void updateNumForName (String forname, PhoneNumber newNum) {
        if (this.name.equals(forname)) {
            this.phnum = newNum;
        }
    }
}
```

```
class MenuItem {
    String name;
    int price;

    MenuItem(String name, int price) {
        this.name = name;
        this.price = price;
    }

    void updatePriceForName (String forname, int newPrice) {
        if (this.name.equals(forname)) {
            this.price = newPrice;
        }
    }
}
```

```
class NameAssoc {  
    String name;  
    ??? data;  
  
    NameAssoc(String name, ??? data) {  
        this.name = name;  
        this.data = data;  
    }  
  
    void updateValForName (String forname, ??? newData) {  
        if (this.name.equals(forname)) {  
            this.data = newData;  
        }  
    }  
}
```



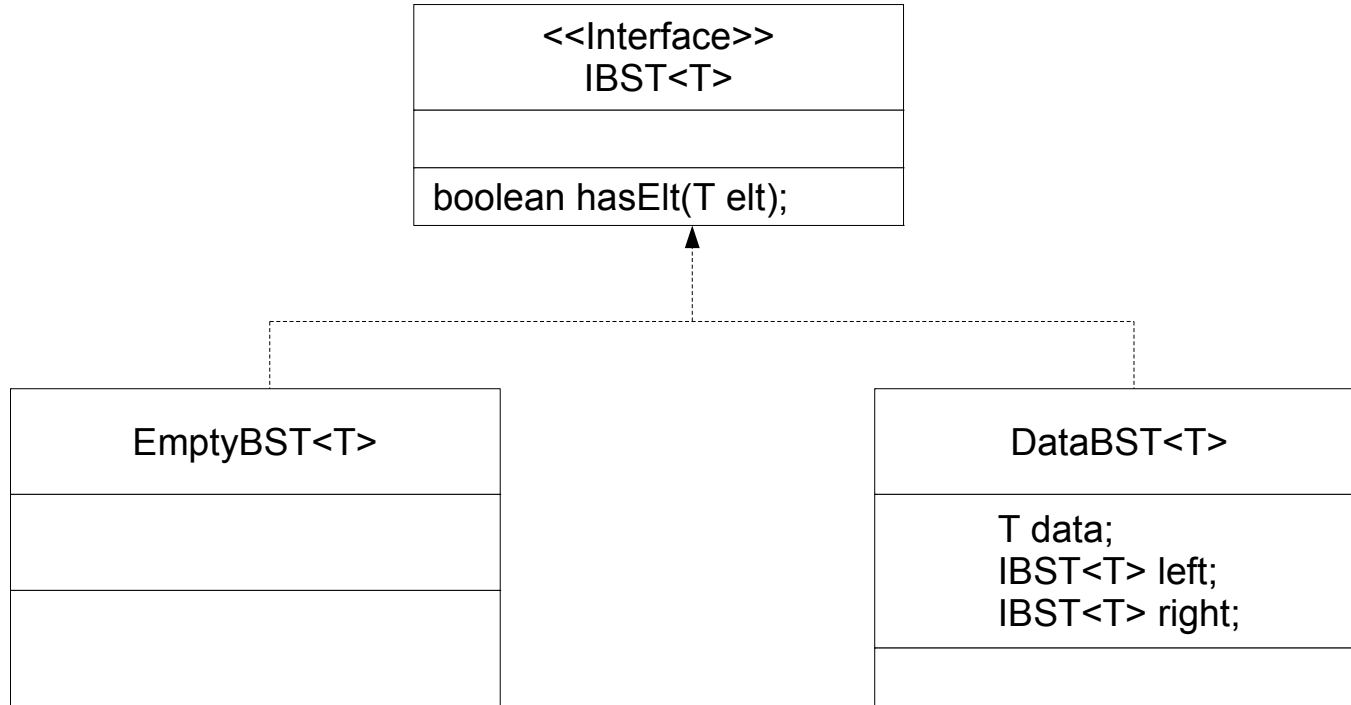
```
class NameAssoc<T> {  
    private String name;  
    private T data;  
  
    public NameAssoc (String name, T data) {  
        ...  
    }  
  
    public void updateValForName(String forName, T newData) {  
        ...  
    }  
}
```

```
class NameAssoc<T> {  
    private String name;  
    private T data;  
  
    public NameAssoc (String name, T data) {  
        ...  
    }  
  
    public void updateValForName(String forName, T newData) {  
        ...  
    }  
}
```

```
class MenuItem extends NameAssoc<Integer> {  
    public MenuItem(String name, int price) {  
        super(name, price);  
    }  
}
```

```
Class Pair<S, T> {  
    private S data1;  
    private T data2;  
  
    public Pair(S d1, T d2) {  
        this.data1 = d1;  
        this.data2 = d2;  
    }  
}
```

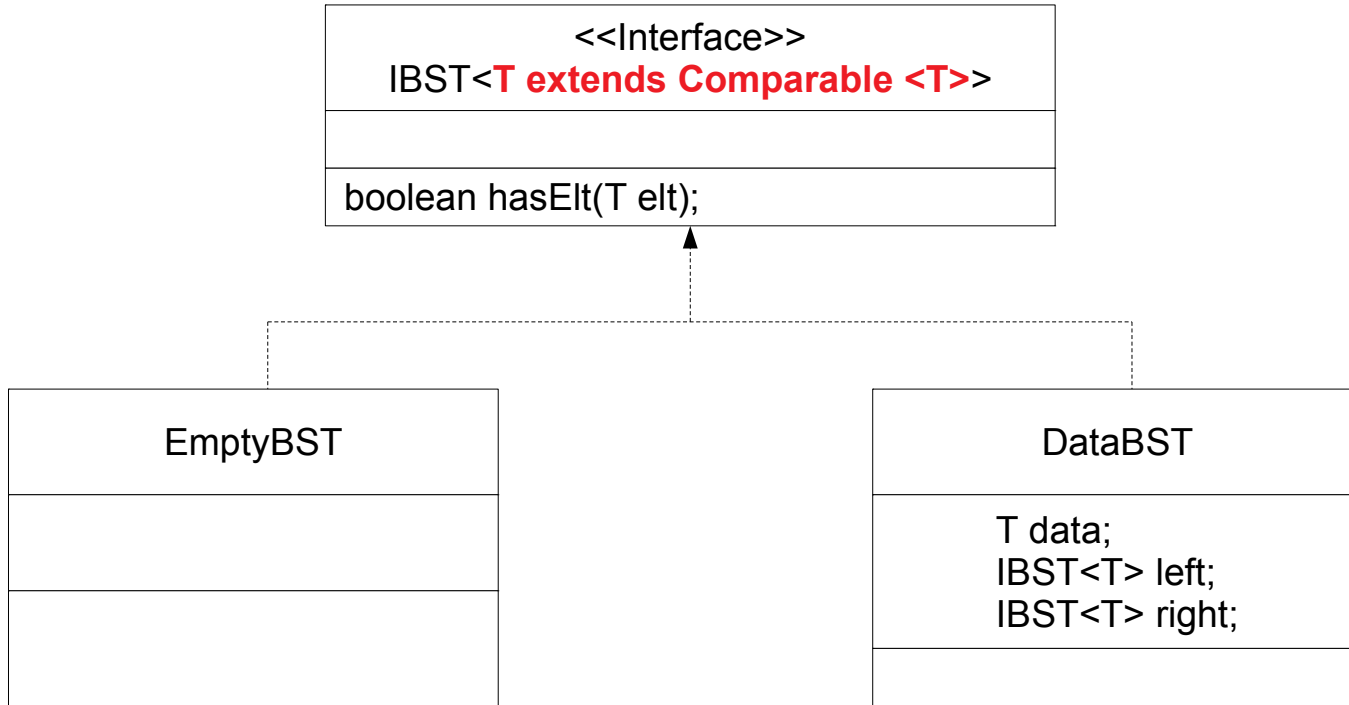
```
Pair <Integer, String> p1 = new Pair<Integer, String>(4, "Hello");
```



```
//write hasElt for a BST that contains integerse
public boolean hasElt(int elt) {
    if(this.data == elt)
        return true;
    else if (elt < this.data)
        return this.left.hasElt(elt);
    else
        return this.right.hasElt(elt);
}
```

```
class Book implements Comparable<Book> {  
  
    ...  
  
    public int compareTo(Book other) {  
        if(this.isbn < other.isbn)  
            return -1;  
        else if (this.isbn > other.isbn)  
            return 1;  
        else  
            return 0;  
    }  
}
```

```
//write hasElt for a BST that contains integers
public boolean hasElt(T elt) {
    if(this.data.compareTo(elt) == 0)
        return true;
    else if (this.data.compareTo(elt) < 0)
        return this.left.hasElt(elt);
    else
        return this.right.hasElt(elt);
}
```



```
interface IBST<T extends Comparable<T>> {  
    boolean hasElt(T elt);  
}
```