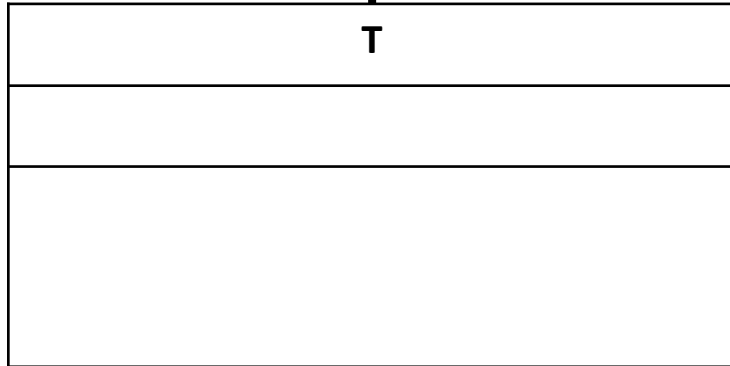


int compareTo(T other)
returns 0 if this == other
returns negative # if this < other
returns positive # if this > other

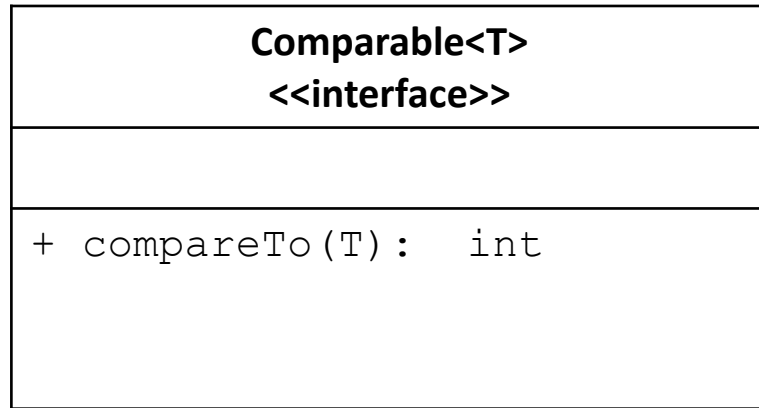


any Class T that **implements** Comparable<T>
must implement the methods listed in the interface

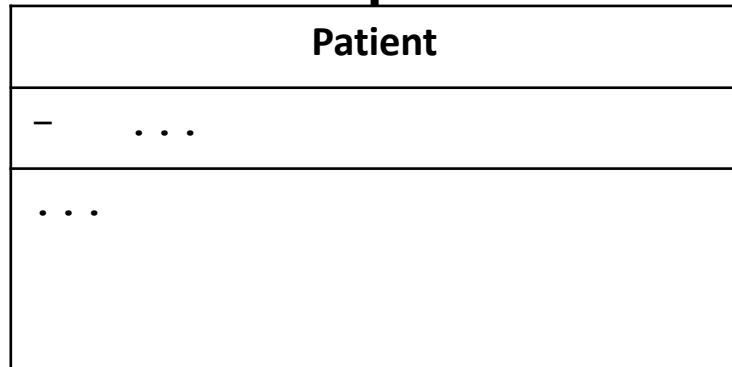


Java documentation:

<https://docs.oracle.com/en/java/javase/16/docs/api/java.base/java/lang/Comparable.html>



Patient must implement the compareTo method



```
Patient p1;  
Patient p2;  
// initialize p1 and p2...  
p1.compareTo(p2);  
returns 0           if p1 equals p2  
returns negative # if p1 < p2  
returns positive  # if p1 > p2
```

Assignment 8 code – documentation omitted

```
public class Triage {
    private PriorityQueue patients;

    public Triage() {
        // TODO...
    }

    public Triage(int size) {
        // TODO...
    }

    public void addPatient(Patient p) {
        // TODO...
    }

    public int numPatientsWaiting() {
        // TODO...
        return 0;
    }

    public Patient nextPatient() {
        // TODO...

        return null;
    }
}
```

Assignment 8 code – documentation omitted

```
public class Triage {
    private PriorityQueue patients;

    public Triage() {
        // TODO...
    }

    public Triage(int size) {
        // TODO...
    }

    public void addPatient(Patient p) {
        // TODO...
    }

    public int numPatientsWaiting() {
        // TODO...
        return 0;
    }

    public Patient nextPatient() {
        // TODO...

        return null;
    }
}
```

```
public interface PriorityQueue {

    public void insert ( Comparable element );

    public Comparable removeHigh ()
        throws QueueEmptyException;

    public boolean isEmpty();

    public int size ();

}
```