0. RadioStation
Suppose that a class RadioStation has been defined for storing information about radio stations. Each station object keeps track of its name (a String), its broadcast band (a String) and its station number (a double). For example, there is a local station called KUOW that is an FM station broadcast on 94.9. The class looks like:

```java
public class RadioStation implements Comparable<RadioStation> {
    private String name; // name such as "KUOW"
    private String band; // band such as "AM" or "FM"
    private double station; // station such as 94.9

    //Constructor that takes name, band, and station
    //Getters for all fields
}
```

Your task is to modify the class to be Comparable by adding an appropriate compareTo method. Radio stations should be grouped together by band (e.g., all AM stations grouped together and all FM stations grouped together). Within a given band, the stations should be sorted by station number (e.g., FM 94.9 less than FM 96.5).

The broadcast band can be any arbitrary String. For example, it might be "AM" versus "FM" or might include subdivisions like "FM 1" and "FM 2" or might include other text like "XM" for satellite radio.

Solution:
```java
public int compareTo(RadioStation other) {
    if (band.compareTo(other.band) != 0) {
        return band.compareTo(other.band);
    } else {
        return ((Double) this.station).compareTo(other.station);
    }
}
```