

```

public int compareTo(NGram other) {
    if (this.data.size() > other.data.size()){
        return 1;
    }
    if (this.data.size() < other.data.size()){
        return -1;
    }
    if (this.data.size() == other.data.size()){
        if (this.data.equals(other.data)){
            return 0;
        }
        Iterator thisiterator = this.data.iterator();
        Iterator otheriterator = other.data.iterator();
        while (thisiterator.hasNext()){
            String nexti = thisiterator.next().toString();
            String nextx = otheriterator.next().toString();
            for (int i=0; i<nexti.length(); i++){
                if (nexti.charAt(i) >nextx.charAt(i)){
                    return 1;
                }
                else if (nexti.charAt(i) < nextx.charAt(i)){
                    return -1;
                }
            }
        }
    }
    return -1;
}

@Override
public boolean equals(Object o) {
    if (!o instanceof NGram) {
        return false;
    }
    if ((NGram)o.data.size() == this.data.size()) {
        Iterator thisiterator = this.data.iterator();
        Iterator otheriterator = ((NGram) o).data.iterator();
        while (thisiterator.hasNext() && otheriterator.hasNext()){
            if (thisiterator.next().equals(otheriterator.next())){
                return false;
            }
        }
        return true;
    }
    return false;
}

```