```java
package ppe1;


// 1- Write a code for the method  " printMap()"
// 2- Use comparator to enable the HashMap to sort the mountains by height

import java.util.Collection;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;
import java.util.TreeSet;

public class aa1 {

    public static void main(String[] args) {

        Set<Mountains> mountains = new TreeSet<Mountains>(new MountainsComparator());
        mountains.add(new Mountains("Everest", 29029));
        mountains.add(new Mountains("K2", 28251));
        mountains.add(new Mountains("Kangchenjunga", 28169));
        mountains.add(new Mountains("Denali", 20335));
        printMap(mountains);
    }

    static void printMap(Set<Mountains> a) {
        Iterator<Mountains> iterator = a.iterator();
        while (iterator.hasNext()) {
            Mountains key = iterator.next();
            System.out.println(key.getkey() + ":" + key.getValue());
        }

    }
}

class MountainsComparator implements Comparator<Mountains> {

    @Override
    public int compare(Mountains o1, Mountains o2) {
        if (o1.getValue() > o2.getValue()) {
            return 1;
        } else {
            return -1;
        }

    }

}

class Mountains {
    String key;
    int value;

    Mountains(String k, int v) {
```

```
        key = k;
        value = v;
    }

    int getValue() {
        return value;
    }

    public String getkey() {
        return key;
    }

}
```

++

```
Denali:20335
Kangchenjunga:28169
K2:28251
Everest:29029
```