

Problem

Program

Comparable - Display State

Write a Java program to get the country names and state names from the user separated by a pipe symbol. Finally display all the countries and their states sorted in ascending order based on their names.

Create a main class "Main.java"

Create country class with below attributes,

- name - String
- stateList - List<State> (All state object for this country is stored in this list)

Add appropriate getter and setter methods for **Country** class

Include a constructor accepting country name as a parameter

Below are the methods in country class

- addState(String statename) - Add the new state to this country object
- getStateList() - Sort the state collection and return the list

Create **State** class with single attribute **name**

Add appropriate getter and setter methods for State class

Include a constructor with single argument state name

Implement Comparable interface in the State class and implement the method compareTo()

Input and Output Format:

First input corresponds to the number of input elements and followed by country and state information in the format countryname|statename.

Display the state name followed by two hyphen(-)

Refer sample input and output for formatting specifications.

[All text in bold corresponds to input and the rest corresponds to output]

Sample Input/Output :

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India|Tamilnadu

India|Kerala

India|Odisha

USA|Texas

USA|Mississippi

USA|Alaska

India|Punjab

Australia|Victoria

Australia|Tasmania

Australia|Queensland

Countries and States in ascending order

Australia

--Queensland

--Tasmania

--Victoria

India

--Kerala

--Odisha

--Punjab

--Tamilnadu

USA

--Alaska

--Mississippi

--Texas