

Java Refresher: Cities and CityTables

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A Simple Java Example

```
public class City {
    public String name;           // ordinarily these member variables
    public String stateName;      // would probably not be public, but
    public int population;        // we'll leave them this way here

    public City(String name, String stateName, int population) {
        this.name = name;
        this.stateName = stateName;
        this.population = population;
    }
}

public class CityTable {

    public static final int POPULATION_THRESHOLD = 1000000;
    public Hashtable ht;

    public CityTable() {
        ht = new Hashtable();
    }

    public void AddCity(City c) {
        if(c.population > POPULATION_THRESHOLD)
            ht.put(c.name, "big city");
        else
            ht.put(c.name, "small town");
    }

    // Return the type of the city as a string; if we
    // haven't entered it into the table yet, we return
    // a null object reference

    public String LookupCityType(String name) {
        String lookup;
        lookup = ht.get(name);
        return lookup;
    }
}
```

