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#include <iostream>
#include <map>
#include <string>
#include <utility>

using namespace std;

int main()
{
    typedef map<string,int> mapType;
    mapType populationMap;

    populationMap.insert(pair<string, float>("Maharashtra", 125));
    populationMap.insert(pair<string, float>("Uttar Pradesh", 225));
    populationMap.insert(mapType::value_type("Bihar", 120));
    populationMap.insert(mapType::value_type("West Bengal", 100));
    populationMap.insert(make_pair("Madhya Pradesh", 90));
    populationMap.insert(make_pair("Tamil Nadu", 80));
    populationMap.insert(make_pair("Rajasthan", 78));
    populationMap.insert(make_pair("Andhra Pradesh", 53));
    populationMap.insert(make_pair("Odisha", 47));
    populationMap.insert(make_pair("Kerala", 38));
    populationMap.insert(make_pair("Telangana", 37));
    populationMap.insert(make_pair("Assam", 35));
    populationMap.insert(make_pair("Jharkhand", 38));
    populationMap.insert(make_pair("Karnataka", 68));
    populationMap.insert(make_pair("Gujarat", 70));
    populationMap.insert(make_pair("Punjab", 31));
    populationMap.insert(make_pair("Chhattisgarh", 30));
    populationMap.insert(make_pair("Haryana", 29));
    populationMap.insert(make_pair("UT Delhi", 19));
    populationMap.insert(make_pair("UT Jammu and Kashmir", 14));
    populationMap.insert(make_pair("Uttarakhand", 12));
    populationMap.insert(make_pair("Himachal Pradesh", 8));
    populationMap.insert(make_pair("Tripura", 04));
    populationMap.insert(make_pair("Meghalaya", 4));
    populationMap.insert(make_pair("Manipur", 3));
    populationMap.insert(make_pair("Nagaland", 2));
    populationMap.insert(make_pair("Goa", 2));
    populationMap.insert(make_pair("Arunachal Pradesh", 2));
    populationMap.insert(make_pair("UT Puducherry", 2));
    populationMap.insert(make_pair("Mizoram", 1));
    populationMap.insert(make_pair("UT Chandigarh", 1));
    populationMap.insert(make_pair("Sikkim", 1));
    populationMap.insert(make_pair("UT Dadra and Nagar Haveli and Daman
and Diu", 1));
    populationMap.insert(make_pair("UT Andaman and Nicobar Islands",
1));
    populationMap.insert(make_pair("UT Lakshadweep", 0.0003));
    populationMap.insert(make_pair("UT Ladakh", 0.00006));

    mapType::iterator iter = --populationMap.end();
    populationMap.erase(iter);

    cout << "Total state and UT of India with Size of populationMap: "
<< populationMap.size() << '\n';

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        for (iter = populationMap.begin(); iter != populationMap.end();
++iter)
        {
            cout << iter->first << ":" << iter->second << " million\n";
        }

        char c;
        do
        {
            string state;
            cout<<"\nEnter that state you want to know the population of:
";

            cin>>state;
            iter = populationMap.find(state);
            if( iter != populationMap.end() )
                cout << state <<"'s populations is "
                    << iter->second << " million\n";
            else
                cout << "State is not in populationMap" << '\n';

            cout<<"Do you wish to continue?(y/n):";
            cin>>c;
        }while(c=='y' || c=='Y');

        populationMap.clear();

        return 0;
    }

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