#include <iostream>

#include <map>

#include <string>

#include <utility>

using namespace std;

int main()

{

typedef map<string, int> mapType;

mapType populationMap;

populationMap.insert(pair<string, int>("China", 1339));

populationMap.insert(pair<string, int>("India", 1187));

populationMap.insert(mapType::value\_type("US", 310));

populationMap.insert(mapType::value\_type("Indonesia", 234)); populationMap.insert(make\_pair("Brasil", 193));

populationMap.insert(make\_pair("Pakistan", 170));

// Erase the end element using the erase function

// Because it's ordered map (by key),

// map elements are not in the order of the entry

// In this map it's US since it's ordered alphabetically.

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

populationMap.erase(iter);

// output the size of the map

cout << "Size of populationMap: " << populationMap.size() << '\n';

for (iter = populationMap.begin(); iter != populationMap.end(); ++iter) {

cout << iter->first <<": "

<< iter->second << " million\n";

}

// find will return an iterator to the matching element if it is found

// or to the end of the map if the key is not found

string country("Indonesia");

iter = populationMap.find(country);

if( iter != populationMap.end() )

cout << country <<"'s populations is "

<< iter->second << " million\n";else

cout << "Key is not in populationMap" << '\n';

// clear the entries in the map

populationMap.clear();

}

OUTPUT

Size of populationMap: 5

Brasil: 193 million

China: 1339 million

India: 1187 million

Indonesia: 234 million

Pakistan: 170 million

Indonesia's populations is 234 million