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// stl_vector_records.cpp
#include <iostream>
#include <vector>
#include <algorithm>
#include <string>
using namespace std;

struct Person {
    string name;
    string dob;
    string phone;

    // For sorting by name
    bool operator<(const Person &other) const {
        return name < other.name;
    }
};

void printPerson(const Person &p) {
    cout << "Name: " << p.name << ", DOB: " << p.dob << ", Phone: " << p.phone << "\n";
}

int main() {
    vector<Person> people = {
        {"Aman", "05-05-2000", "9123456780"},
        {"Pranav", "01-01-2000", "9876543210"},
        {"Zara", "12-12-2001", "9000000000"}
    };

    cout << "Before sort:\n";
    for (auto &p : people) printPerson(p);

    sort(people.begin(), people.end()); // sorts by name using operator<

    cout << "\nAfter sort (by name):\n";
    for (auto &p : people) printPerson(p);

    // Searching: find person with name "Pranav"
    string searchName = "Pranav";
    auto it = find_if(people.begin(), people.end(),
                      [&searchName](const Person &p){ return p.name == searchName; });
    if (it != people.end()) {
        cout << "\nFound record:\n";
        printPerson(*it);
    } else {
        cout << "\nPerson not found\n";
    }
    return 0;
}

```