#include <iostream>

using namespace std;

//PINICAL

struct Node {

int prn;

string name;

Node\* next;

};

class PinnacleClub {

private:

Node\* head;

public:

PinnacleClub() {

head = nullptr;

}

void addMember(int prn, string name) {

Node\* newNode = new Node{prn, name, nullptr};

if (!head) {

head = newNode;

} else {

newNode->next = head;

head = newNode;

}

}

void deleteMember(int prn) {

Node\* current = head;

Node\* prev = nullptr;

while (current && current->prn != prn) {

prev = current;

current = current->next;

}

if (!current) {

cout << "Member not found." << endl;

return;

}

if (!prev) {

head = current->next;

} else {

prev->next = current->next;

}

delete current;

cout << "Member deleted successfully." << endl;

}

int getTotalMembers() {

int count = 0;

Node\* current = head;

while (current) {

count++;

current = current->next;

}

return count;

}

void displayMembers() {

Node\* current = head;

cout << "Club Members:" << endl;

while (current) {

cout << "PRN: " << current->prn << ", Name: " << current->name << endl;

current = current->next;

}

}

void concatenateLists(PinnacleClub& otherList) {

if (!head) {

head = otherList.head;

} else {

Node\* current = head;

while (current->next) {

current = current->next;

}

current->next = otherList.head;

}

}

};

int main() {

PinnacleClub division1, division2;

division1.addMember(123, "John");

division1.addMember(456, "Jane");

division2.addMember(789, "Bob");

division2.addMember(101, "Alice");

cout << "Division 1 Members:" << endl;

division1.displayMembers();

cout << "\nDivision 2 Members:" << endl;

division2.displayMembers();

division1.concatenateLists(division2);

cout << "\nMembers after concatenation:" << endl;

division1.displayMembers();

return 0;

}

**OUTPUT**

c:\Users\nakul\OneDrive\Desktop\Heavycode\" ; if ($?) { g++ icecream.cpp -o icecream } ; if ($?) { .\icecream }

Division 1 Members:

Club Members:

PRN: 456, Name: Jane

PRN: 123, Name: John

Division 2 Members:

Club Members:

PRN: 101, Name: Alice

PRN: 789, Name: Bob

Members after concatenation:

Club Members:

PRN: 456, Name: Jane

PRN: 123, Name: John

PRN: 101, Name: Alice

PRN: 789, Name: Bob

PS C:\Users\nakul\OneDrive\Desktop\Heavycode>